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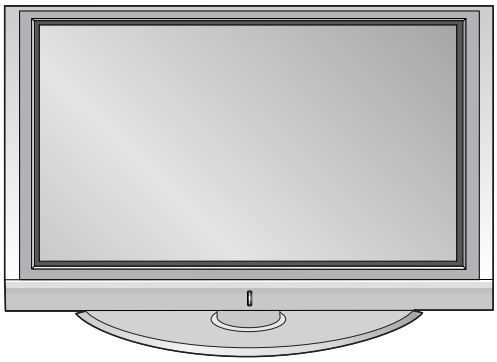
# PLASMA TV
# SERVICE MANUAL

**CHASSIS : PA-61B**

## MODEL : 42PC1DA 42PC1DA-UB

**CAUTION**
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

### General Guidance

An **Isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitary that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the same specified type.

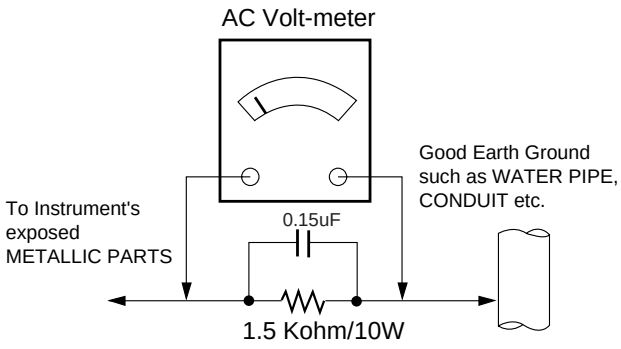
When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

**Leakage Current Cold Check(Antenna Cold Check)**
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on positioin, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

**Leakage Current Hot Check** (See below Figure)
Plug the AC cord directly into the AC outlet.
**Do not use a line Isolation Transformer during this check.**
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each esposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits sepcified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

**Leakage Current Hot Check circuit**

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# TABLE OF CONTENTS

DESCRIPTION OF CONTROLS .....4

SPECIFICATIONS.....8

ADJUSTMENT INSTRUCTIONS .....9

BLOCK DIAGRAM.....17

EXPLODED VIEW.....30

EXPLODED VIEW PARTS LIST .....31

REPLACEMENT PARTS LIST .....32

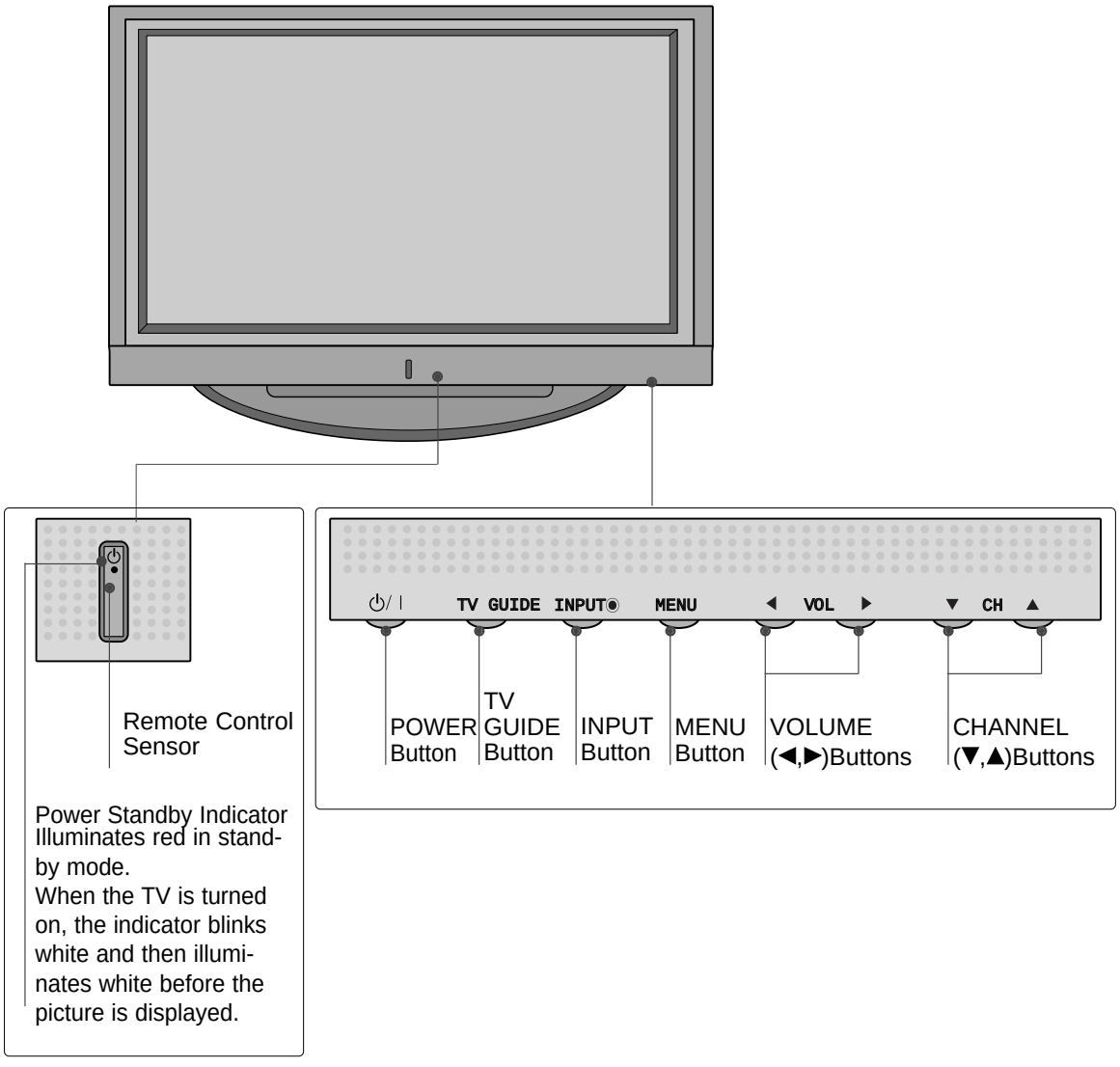
SCHEMATIC DIAGRAM.....

PRINTED CIRCUIT BOARDS.....

# CONTROLS

This is a representation of the front panel of models 42PC1DA series TVs.
Here shown may be somewhat different from your TV.

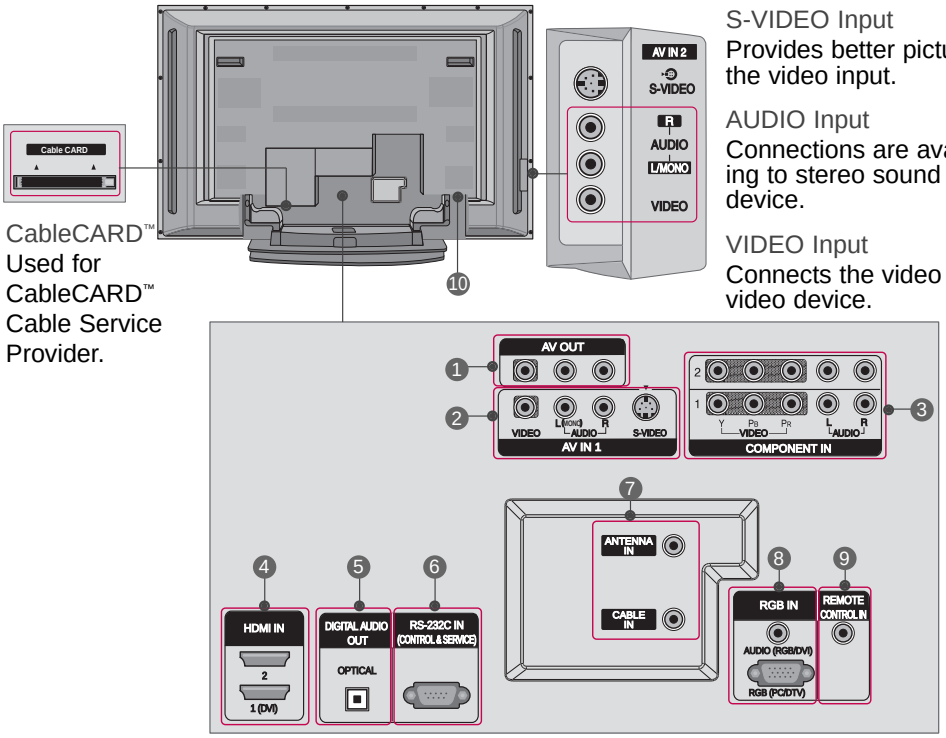
## Front Panel Controls



# CONNECTION OPTION

This is a back panel of 42PC1DA.

## Back Connection Panel




CableCARD™
Used for CableCARD™ Cable Service Provider.

S-VIDEO Input
Provides better picture quality than the video input.

AUDIO Input
Connections are available for listening to stereo sound from an external device.

VIDEO Input
Connects the video signal from a video device.

❶ AV OUT
Connect a second TV or monitor.

❷ AV (Audio/Video) IN 1
Connect audio/video output from an external device to these jacks.
S-VIDEO
Connect S-Video out from an S-VIDEO device.

❸ COMPONENT IN
Connect a component video/audio device to these jacks.

❹ HDMI IN
Connect a HDMI signal to 1(DVI) or 2.
Or DVI(VIDEO)signal to the 1(DVI) port with a DVI to HDMI cable.

❺ DIGITAL AUDIO OUT
Connect digital audio from various types of equipment.
Note: In standby mode, these ports do not work.

❻ RS-232C IN (CONTROL & SERVICE) PORT
Connect to the RS-232C port on a PC.

❼ ANTENNA IN
Connect over-the air signals to this jack.
CABLE IN
Connect cable signals to this jack.

❽ RGB/AUDIO IN
Connect the monitor output from a PC to the appropriate input port.

❾ Remote Control Port
Connect your wired remote control.

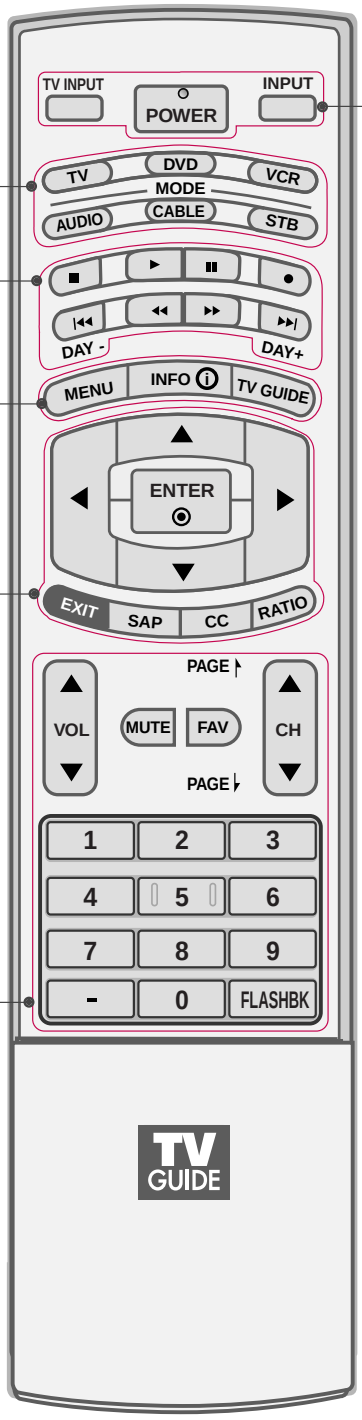
❿ Power Cord Socket
For operation with AC power.
Caution:
Never attempt to operate the TV on DC power.

# DESCRIPTION OF CONTROLS

## REMOTE CONTROL KEY FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV.

| | |
|---|---|
| MODE | Select the remote operating mode: TV, DVD, VCR, AUDIO, CABLE or STB. |
| VCR/DVD control buttons | Control video cassette recorders or DVD players. |
| DAY+/DAY- | Move the Listings Grid forward or backward in 24 hour increments. |
| MENU | Displays the main menu. Enters or exits a Panel Menu in the TV Guide On Screen system. |
| INFO | Display information at the top of the screen. |
| TV GUIDE | Displays the TV Guide On Screen system. |
| THUMBSTICK (Up/Down/Left Right/ENTER) | Navigate the on-screen menus and adjust the system settings to your preference. |
| EXIT | Clear all on-screen displays and return to TV viewing from any menu. |
| SAP | ◦ Analog mode: Selects MTS sound(Mono, Stereo, and a SAP)<br>◦ DTV mode: Change the audio language. |
| CC | Select a closed caption.<br>(*In DTV/CADTV mode |
| RATIO | Change the aspect ratio. |
| VOLUME UP /DOWN | Increase/decrease the sound level. |
| MUTE | Switch the sound on or off. |
| FAV | Scroll through the programmed Favorite channels. |
| CHANNEL UP/DOWN | Select available channels. |
| PAGE UP/ PAGE DOWN | Move from one full set of screen information to the next one. |
| NUMBER but- | |
| — (DASH) | Used to enter a program number for multiple program channels such as 2-1, 2-2, etc. |
| FLASHBK | Tune to the last channel viewed. |

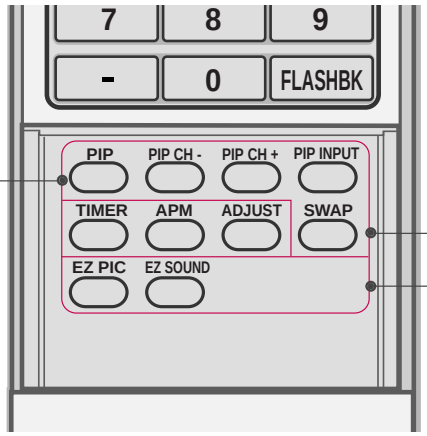


# DESCRIPTION OF CONTROLS

| | |
|---|---|
| POWER | Turns your TV or any other programmed equipment on or off, depending on the mode. |
| TV INPUT | In AV 1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI, and HDMI2 input sources, screen returns to the last TV channel. |
| INPUT | External input modes rotate in regular sequence: Antenna, Cable, AV1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI and HDMI2 (AV 1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI, and HDMI2 input sources are linked automatically, only if these are connected ). |

## Inside the Sliding Cover

| | |
|---|---|
| TIMER | Select the amount of time before your TV turns off automatically. |
| APM | Compare the Daylight, Normal, Night Time and User1(or2) on the screen. |
| ADJUST | Adjust the screen position,size,and phase in PC mode. |




| | |
|---|---|
| PIP | Switches the sub picture PIP, POP, Twin picture or off mode. |
| PIPCH-/PIPCH+ | Changes the PIP channel. |
| PIP INPUT | Select the connected input source for the sub-picture. |
| SWAP | Exchange the main/sub images. |
| EZ PIC | Adjust the factory preset picture depend on the viewing environment. |
| EZ SOUND | Select the appropriate type of sound for type of program. |

# SPECIFICATIONS

| MODELS | | 42PC1DA<br>(42PC1DA-UB) |
|---|---|---|
| Dimensions<br>(Width x Height x Depth) | including stand | 44.4 x 29.5 x 15.0 inches<br>1129.0 x 748.5 x 380.0 mm |
| | excluding stand | 44.4 x 27.4 x 4.1 inches<br>1129.0 x 695.0 x 103.7 mm |
| Weight | including stand | 61.1 pounds / 27.7 kg |
| | excluding stand | 53.4 pounds / 24.2 kg |
| Power requirement | | AC100-240V ~ 50/60Hz |
| Television System | | NTSC-M, ATSC, 64 & 256 QAM |
| Program Coverage | | VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 |
| External Antenna Impedance | | 75 ohm |
| Environment condition | Operating Temperature | 32 ~ 104°F (0 ~ 40°C) |
| | Operating Humidity | Less than 80% |
| | Storage Temperature | -4 ~ 140°F (-20 ~ 60°C) |
| | Storage Humidity | 0 ~ 85% |

The specifications shown above may be changed without prior notice for quality improvement.

# ADJUSTMENT INSTRUCTIONS

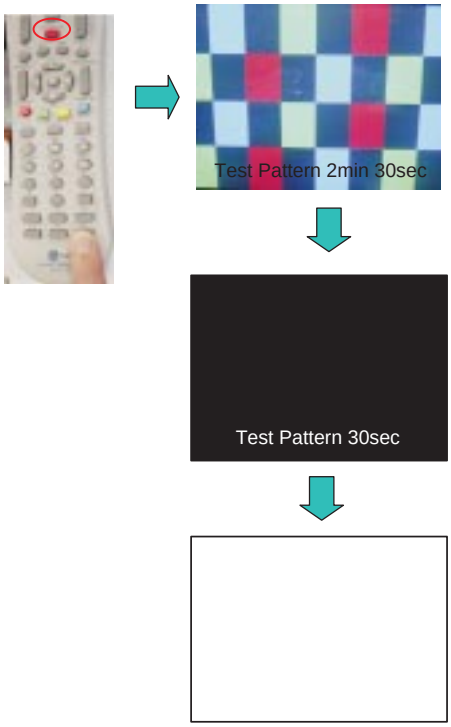
## 1. Application Object

These instructions are applied to all of the PDP TV, PA61B.

## 2. Notes

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
(2) Adjustments must be done in the correct order.
(3) The adjustments must be performed in the circumstance of 25±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
(5) The receiver must be operational for about 15 minutes prior to the adjustments.

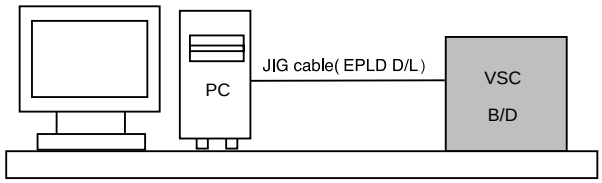
● Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.
● Test for afterimage discharge detection
1) After pressing Power Only key(only operating by pressing Power Only key), Full Test Pattern(2 min 30sec) --> Full Black Pattern(30sec) --> After this state, Full White Pattern is displayed.
(but you must preset the program for Full White State when you press the Main Power Off/On)
2) Pattern Mode is deselected by pressing CH +/-, Exit Key.




※ Set is activated HEAT-RUN without signal generator in this mode.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

## 3. EPLD Download



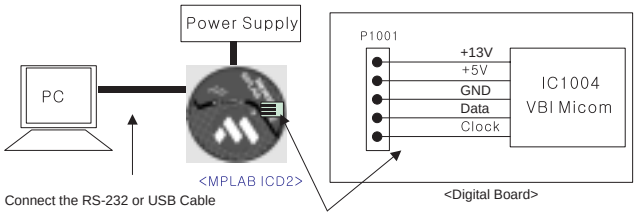

Connection Diagram of EPLD Download

(1) Test Equipment: PC, Jig for download
(2) Connect the power of VSC B/D.
(3) Execute download program(iMPACK) of PC.
(4) After executing the hot key on the Programmer, click icon
(5) End after confirming

## 4. Gemstar VBI Micom Download

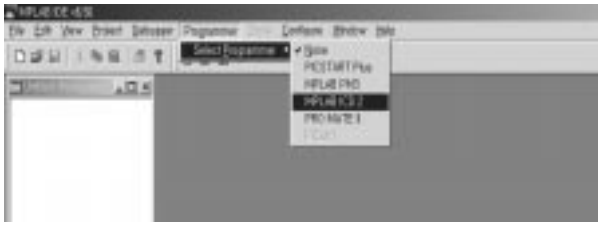
### 4-1. Preparation for Adjustment

(1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
(2) Turn on the MPLAB ICD2 POWER Supply.
(3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.

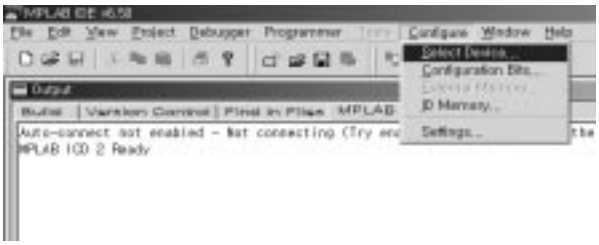



### 4-2. Adjustment Sequence

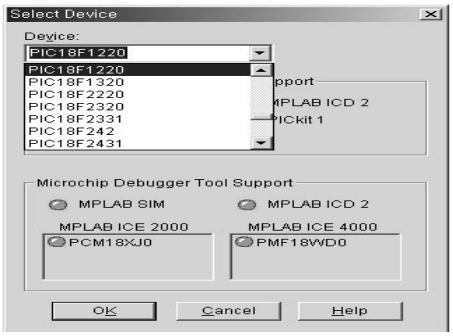
(1) When the program is executed, select the MPLAB ICD2 from Programmer -> Select Programmer .



(2) Select "Configure -> Select Device".



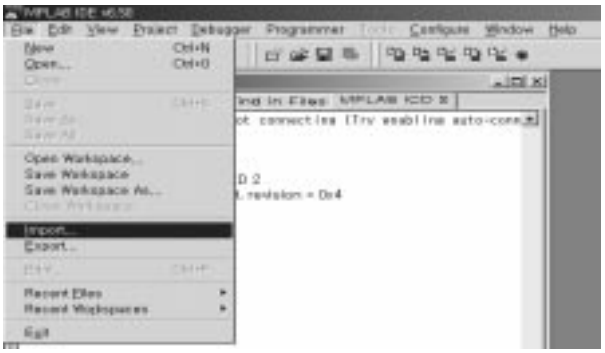

(3) When the "Select Device" window appears, select the PIC18F1220 from "Device" and press OK.



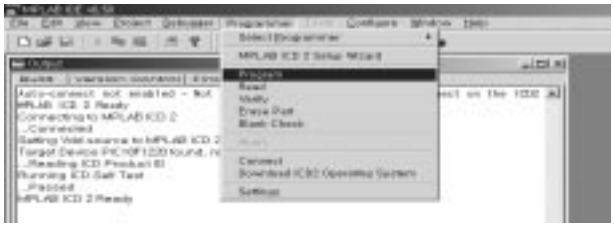

(4) Select "Programmer -> Connect".

When connected with the Micom, the display message on the Output window appears as below.

(5) Select "File -> Import", select the Work HEX file and open.




(6) Select "Programmer -> Program".




(7) Download is executed and about 5 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

(8) The execution of process (6) is convenient when using the short-cut icon.


# 5. POD Certificate Download

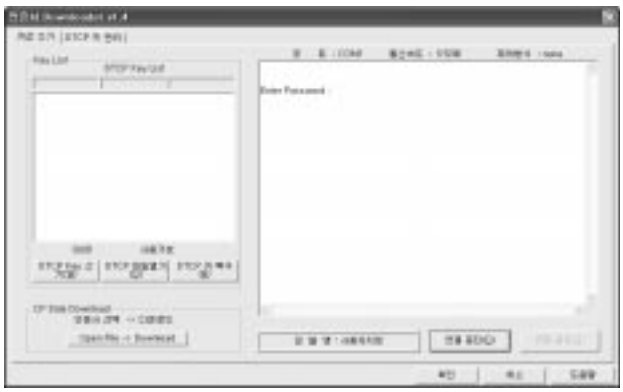
## 5-1. Preparation for Adjustment

(1) Connect the MEMORY JIG and PC.
(2) Turn on the JIG MAIN POWER SWITCH.
(3) After turn on the PC and MONITOR, execute the 'Certificate Downloader v1.4' from the screen.

## 5-2. Adjustment Sequence

(1) After open the 'Certificate Downloader v1.4', enter Connection set and set the as same below.
The port settings are determined by each PC's setup.

(2) Select ‘Connection’ and SET connected to RS-232C.
(3) After clicking "Enter", confirm that "Enter Password:" appears.



(4) Click the "OpenFile - Download" button from CP Data Download, ‘select the Private Key’ appears and click ENTER.

(5) After clicking ENTER, the ‘opens Private key' window appears and select the Private key applied to the SET.
The Private Key file name is on the Label of the Digital Board.

(6) When the Dialog window appears, click OK and the write work will begin.

(7) When completed, click ‘CP Data Download: OK’

※ When ‘CP Data Download: OK’ does not appear, certificate has not Download correctly.
SET is rebooted and certificate Download work must be repeated.

# 6. Gemstar Operation Confirmation

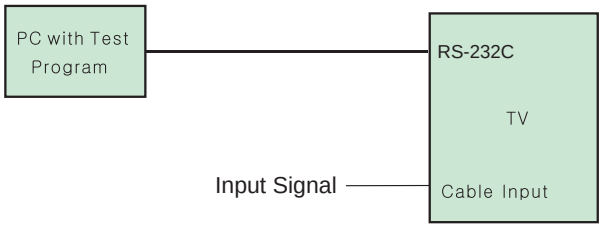
## 6-1. Required Test Equipment

(1) PC with Factory Test Program
(2) VBI Inserter (Norpak TES3) - Guide Data Discharge Equipment

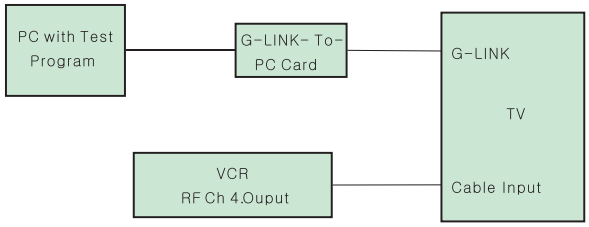
※ In case of without the VBI Inserter(TES3), a VCR may be used.

## 6-2. Preparation for Adjustments

(1) In case of with VBI Inserter(TES3): Signal uses Cable input and set as below.



(2) In case of without VBI Inserter(TES3): VCR uses Cable input and set as below.



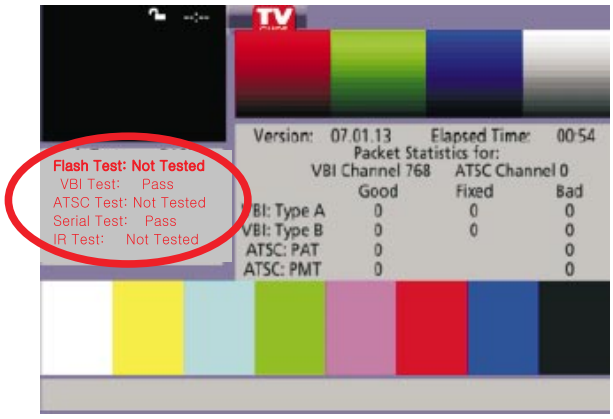

※ Factory Test S/W must be set to "GlinkTo PC Card" ON.

## 6-3. Adjustment Confirmation Work

(1) Turn on the TV and run Factory Test Program of PC.

※ Program only needs to run once, regardless of set quantity.

(2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S R/C).
(3) Go to number 1 Gemstar and press Enter.
(4) TV set screen will appear as shown.




(5) Confrim that VBI Test and Serial Test PASS from the screen.

## 7. Cable Operation Confirmation

(1) Confirm that the Cable Card is inserted in the slot.
(2) Enter the EZ adjust menu by pressing the Adjust key on the Service Remote Control (S R/C).
(3) Go to number 2 Cable Check and press the Right key (▶) .
(4) Confirm items below.

| Name | Normal | Defective |
|---|---|---|
| Descrambler Check | OK | Not OK |
| CableCARD | CableCARD™ is inserted. | CableCARD™ is removed. |
| OOB Path | OK(Lock) | Not OK(Unlock) |
| FDC_SNR | OK(20dB above) | Not OK(20dB under) |
| Video Signal | Normal Screen | Black Screen (No Picture) |

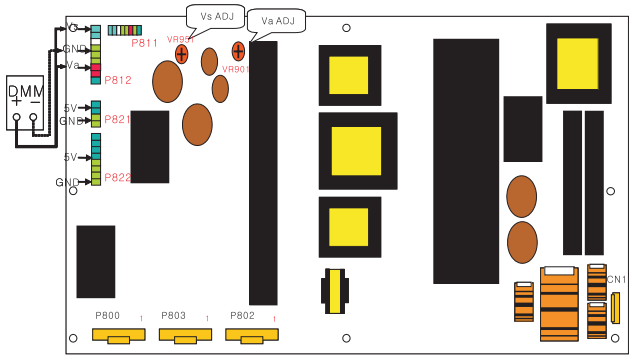

Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

## 8. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

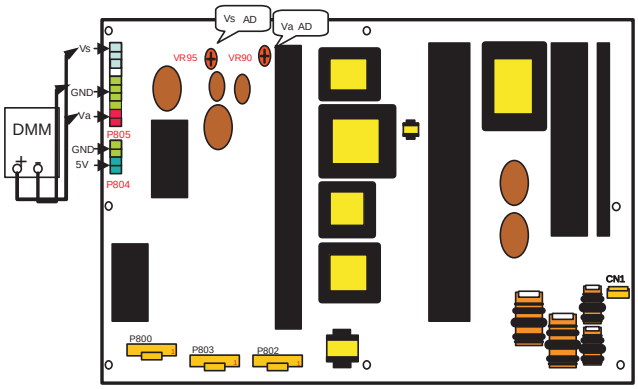
### 8-1. Test Equipment : D.M.M 1EA

### 8-2. Connection Diagram for Measuring

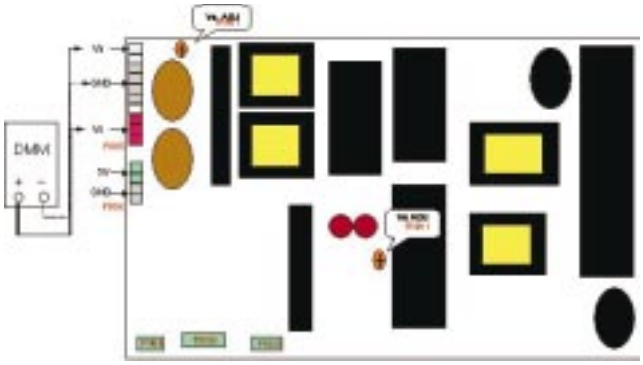
Refer to Fig 1.




<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 42”




<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 50”




<Fig. 1-3> Connection Diagram of Power Adjustment for Measuring (Power Board): 60”

## 8-3. Adjustment (42”)

### (1) Va Adjustment

1) Connect + terminal of D.M.M to Va pin of P812 and connect – terminal to GND pin of P812.
2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

### (2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P812 and connect – terminal to GND pin of P812.
2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

## 8-4. Adjustment (50”)

### (1) Va Adjustment

1) Connect + terminal of D.M.M to Va pin of P805 and connect – terminal to GND pin of P805.
2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

### (2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of P805.
2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

## 8-5. Adjustment (60”)

### (1) Va Adjustment

1) Connect + terminal of D.M.M to Va pin of P805 and connect – terminal to GND pin of P805.
2) Adjust RV501 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

### (2) Vs Adjustment

1) Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of P805.
2) Adjust RV401 voltage to match that of the label on the Top/Right of the panel. (Deviation : ±0.5V)

# 9. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables “Plug and Play".

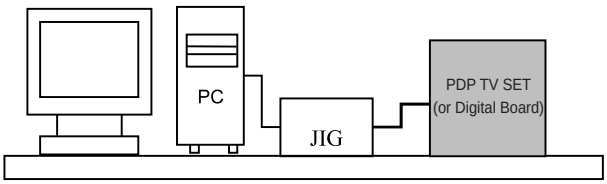
## 9-1. HDMI EDID Data Input

### (1) Required Test Equipment

1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
2) S/W for writing DDC(EDID data write & read)
3) D-Sub cable
4) Jig for HDMI Cable connection

### (2) Preparation for Adjustments & Setting of Device

1) Set devices as below and turn on the PC and JIG.
2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)




<Fig. 2>

## 9-2. EDID DATA for PA-61B

• EDID for HDMI-1 (DDC (Display Data Channel) Data)
EDID table =

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 | 01 |
| 10 | 00 | 10 | 01 | 03 | 80 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 | 23 |
| 20 | 09 | 48 | 4C | 2F | CE | 00 | 31 | 40 | 45 | 40 | 61 | 40 | 01 | 01 | 01 | 01 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 | 70 |
| 40 | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E | 30 |
| 50 | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FD | 00 | 38 |
| 60 | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 4C | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 01 | 99 |

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 02 | 03 | 13 | F1 | 44 | 84 | 05 | 03 | 02 | 23 | 15 | 07 | 50 | 65 | 03 | 0C |
| 10 | 00 | 10 | 00 | 01 | 1D | 00 | 72 | 51 | D0 | 1E | 20 | 6E | 28 | 55 | 00 | C4 |
| 20 | 8E | 21 | 00 | 00 | 1E | 01 | 1D | 80 | 18 | 71 | 1C | 16 | 20 | 58 | 2C | 25 |
| 30 | 00 | C4 | 8E | 21 | 00 | 00 | 9E | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 |
| 40 | 3E | 96 | 00 | C4 | 8E | 21 | 00 | 00 | 18 | 8C | 0A | D0 | 8A | 20 | E0 | 2D |
| 50 | 10 | 10 | 3E | 96 | 00 | 13 | 8E | 21 | 00 | 00 | 18 | 00 | 00 | 00 | 00 | 00 |
| 60 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 70 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | ED |

• EDID for HDMI-2 (DDC (Display Data Channel) Data)
EDID table =

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 | 01 |
| 10 | 00 | 10 | 01 | 03 | 80 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 | 23 |
| 20 | 09 | 48 | 4C | 2F | CE | 00 | 31 | 40 | 45 | 40 | 61 | 40 | 01 | 01 | 01 | 01 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 | 70 |
| 40 | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E | 30 |
| 50 | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FC | 00 | 4C |
| 60 | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FD |
| 70 | 00 | 38 | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 01 | 99 |

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 02 | 03 | 13 | F1 | 44 | 84 | 05 | 03 | 02 | 23 | 15 | 07 | 50 | 65 | 03 | 0C |
| 10 | 00 | 20 | 00 | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 | 3E | 96 | 00 | C4 |
| 20 | 8E | 21 | 00 | 00 | 18 | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 | 3E | 96 |
| 30 | 00 | 13 | 8E | 21 | 00 | 00 | 18 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 40 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 50 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 60 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 70 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 7B |

• EDID DATA for RGB
EDID table =

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 | 01 |
| 10 | 00 | 10 | 01 | 03 | 18 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 | 23 |
| 20 | 09 | 48 | 4C | AF | CE | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| 30 | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 | 70 |
| 40 | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E | 30 |
| 50 | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FD | 00 | 38 |
| 60 | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 4C | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 13 |

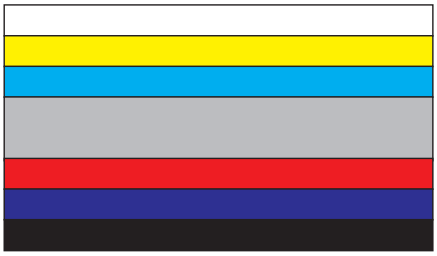
# 10. ADC-Set Adjustment

## 10-1. Synopsis

ADC-Set adjustment to set the black level and the Gain to optimum.

## 10-2. Test Equipment

Service R/C, 801GF(802B, 802F, 802R) or MSPG925FA Pattern Generator
(720P The Horizontal 100% Color Bar Pattern output will be possible and the output level will accurately have to be revised with 0.7±0.1Vp-p)



<Fig. 3> Adjustment Pattern : 480i/1080i 60Hz HozTV31 Bar Pattern

## 10-3. Adjustment

### (1) ADC 480i Component1 Adjustment

Check the connection Component1 to the Test Equipment

(1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode and select 'Normal' in screen.
(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '4. ADC 480i Comp1'.
Pressing the Enter Key to adjust with automatic movement.
(3) When the adjustment is over, 'ADC Component1 Success' is displayed.
(4) If the adjustment has errors, 'ADC Configuration Error' is displayed. And error massage('Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device' ) is displayed for 1 second.

**(2) ADC 1080i Component2/RGB Adjustment**

Check the connection Component2, RGB to the Test Equipment

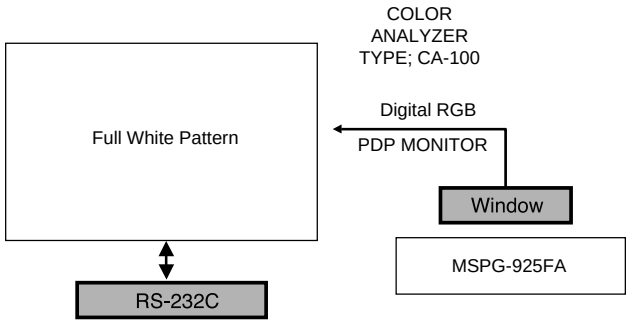
(1) Select Component2 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode and select 'Normal' in screen.
(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '5. ADC 480p Comp2/RGB'.
Pressing the Enter Key to adjust with automatic movement.
(3) When the adjustment is over, 'ADC Component2 Success' is displayed. If the adjustment has errors, 'ADC Configuration Error' is displayed.
(4) After the Component2 adjustment is over, convert the RGB-DTV Mode and display Pattern.
When the adjustment is over, 'ADC RGB_DTV Success' is displayed.
(5) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors.
Error massage is 'Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device'.
(6) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

# 11. Adjustment of White Balance

## 11-1. Required Equipment

(1) Color analyzer (CA-210 or similar product)
(2) Automatic adjustor (with automatic adjustment hour necessity and the RS-232C communication being possible)
(3) Pattern Generator(MSPG-925FA): DVI Output

## 11-2. Connection Diagram of Equipment for Measuring (Automatic Adjustment)




<Fig. 4> Connection Diagram of Automatic Adjustment

**※ RS-232C Command** (Automatic Adjustment)

| | RS-232C COMMAND [CMD ID DATA] | | | Min | CENTER (DEFAULT) | | | Max |
|---|---|---|---|---|---|---|---|---|
| | Cool | Mid | Warm | | Cool | Mid | Warm | |
| R Gain | Jg | Ja | Jd | 00 | 184 | 161 | 192 | 255 |
| G Gain | Jh | Jb | Je | 00 | 187 | 183 | 159 | 255 |
| B Gain | Ji | Jc | Jf | 00 | 192 | 192 | 95 | 255 |
| R Cut | | | | | 64 | 64 | 64 | 127 |
| G Cut | | | | | 64 | 64 | 64 | 127 |
| B Cut | | | | | 64 | 64 | 64 | 127 |

## 11-2. Adjustment of White Balance

- Operate the Zero-calibration of the CA-210, then attach sensor to PDP module surface when you adjust.
- Manual adjustment is also possible by the following sequence.

(1) HEAT RUN at least 30 minutes by pressing the Power only Key on the Service Remote Control and adjust.
(2) After attaching sensor to center of screen, select 'White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (▶). This time white pattern is displayed.

(3) Adjust the Hight Light using R Gain/G Gain(Cool).
Adjust the Hight Light using G Gain/R Gain(Medium).
Adjust the Hight Light using G Gain/B Gain(Warm).
(R Gain: 192, B Gain 192, R-Cut/G-Cut/B-Cut: 64 Fix.)

(4) Adjust using Volume +/- KEY.
(5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

High Level: 216gray

**[Cool]**
X; 0.278±0.015 Y; 0.279±0.015
Color temperature: 11000°K±1000°K
dUV: -3dUV

**[Medium]**
X; 0.287±0.015 Y; 0.289±0.015
Color temperature: 9300°K±1000°K
dUV: -3dUV

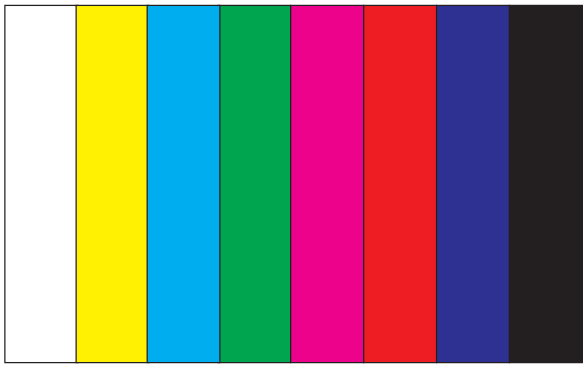
**[Warm]**
X; 0.314±0.015 Y; 0.318±0.015
Color temperature: 6500°K±1000°K
dUV: -3dUV

## 12. Video(uPD)-Set

Adjustment for reduce color difference Main/Sub screen of RF or Video signal.

### 12-1. Adjustment

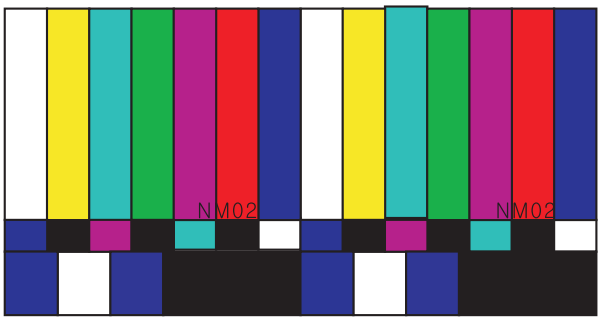
(1) Connection the Video Signal Generator(Master) to the TV AV Input terminal.
After input pattern(Model: 201(NTSC-M), Pattern: 32(100% color Bar), pressing the 'Rev' button and appear as below figure

Model: 201(NTSC-M), Pattern: 32(100% color Bar)

(2) After receive signal, confirm the signal receiving.
And Enter the 'EZ-ADJUST' by pressing the ADJ Key on the Service R/C.
Select '5. Video(UPD)-Set' and enter the adjustment mode by pressing the right key (▶).

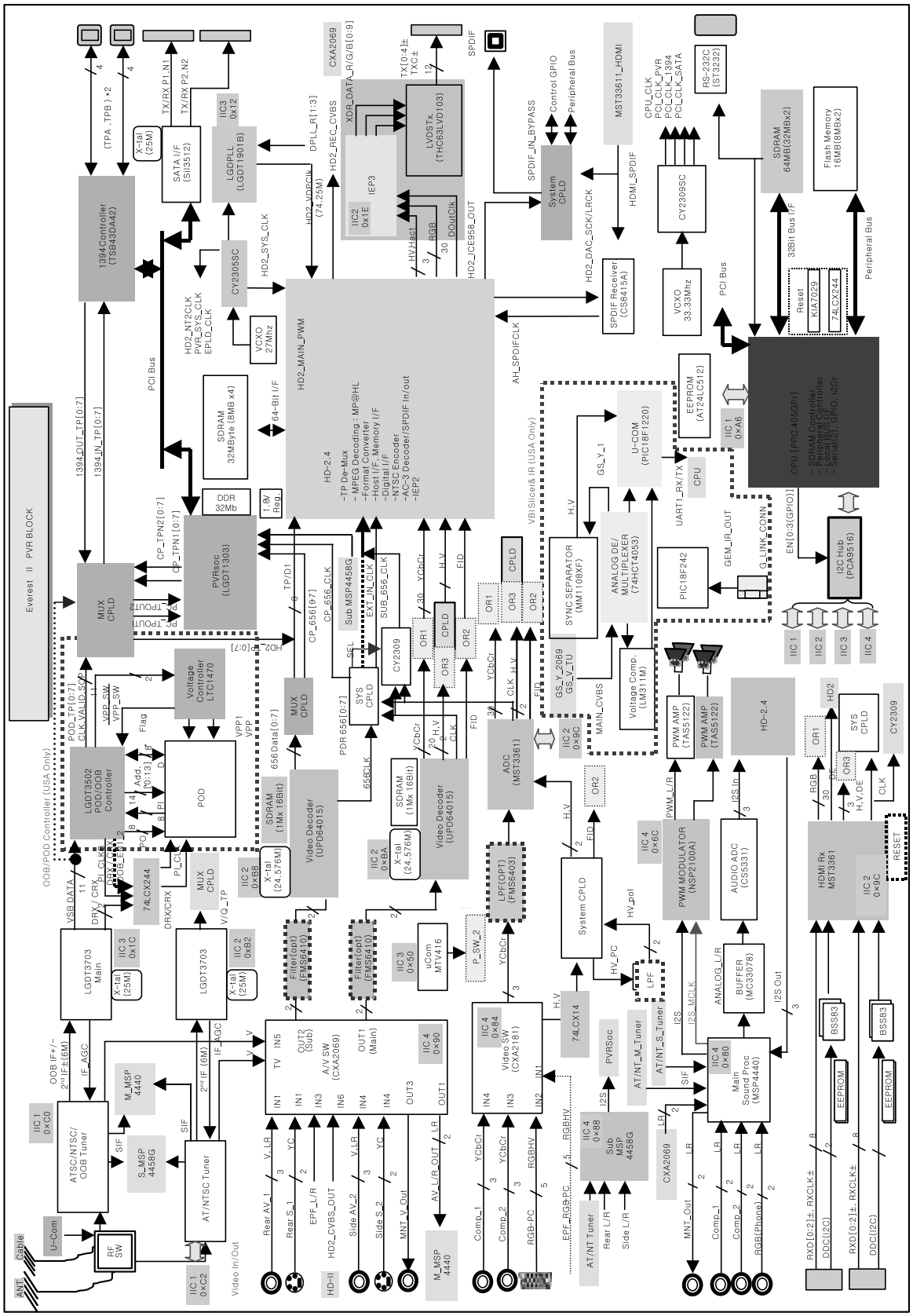
(3) When enter the adjustment mode, displayed the TV 2CH SPLIT Screen automatic at picture and appear as below figure.



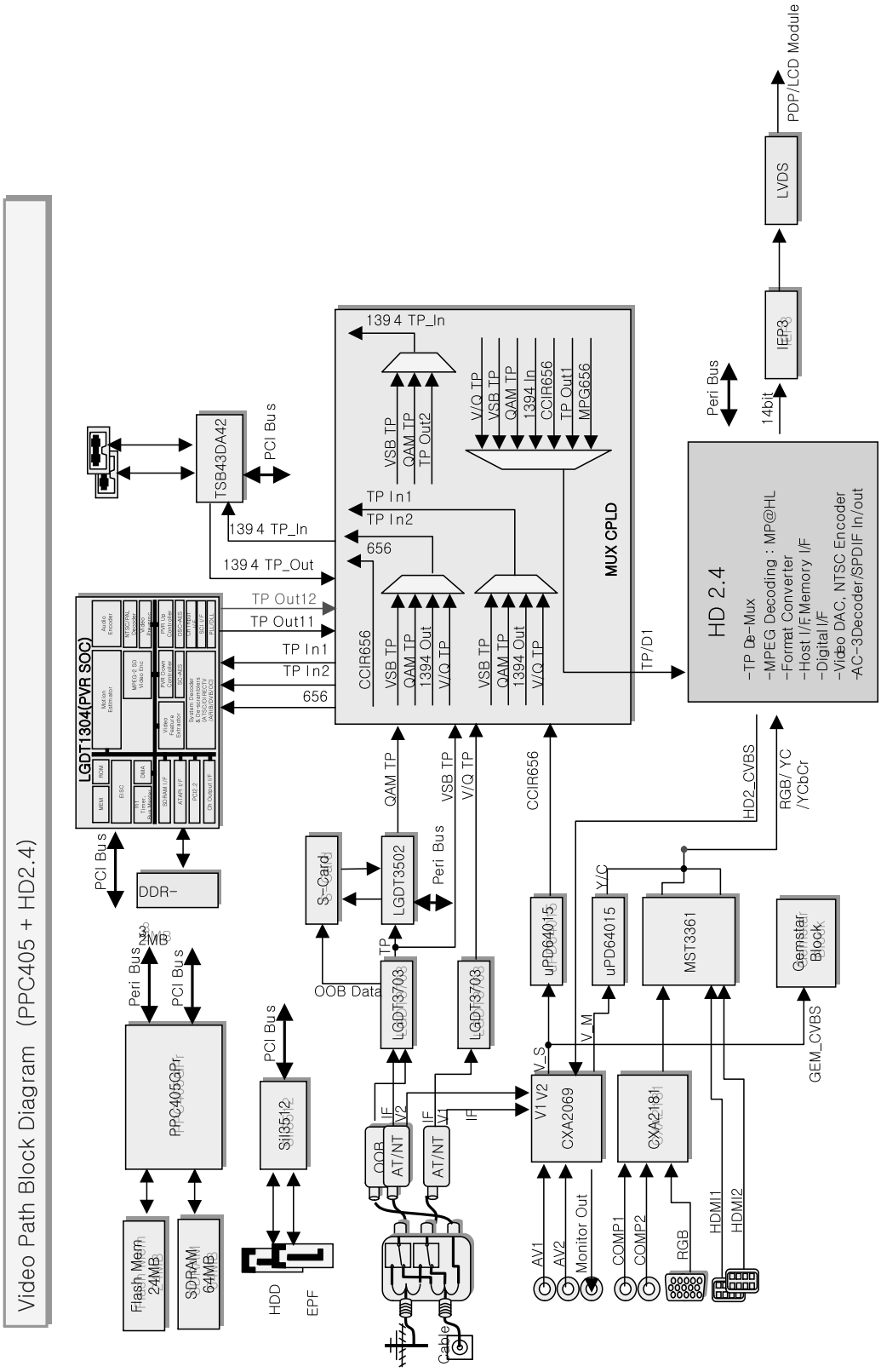

(4) When the automatic adjustment is over, 'RF Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.

(5) After the RF signal automatic adjustment is over, convert the Video Mode as below figure and adjust with automatic movement the Video Mode.
When the automatic adjustment is over, 'Video Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.

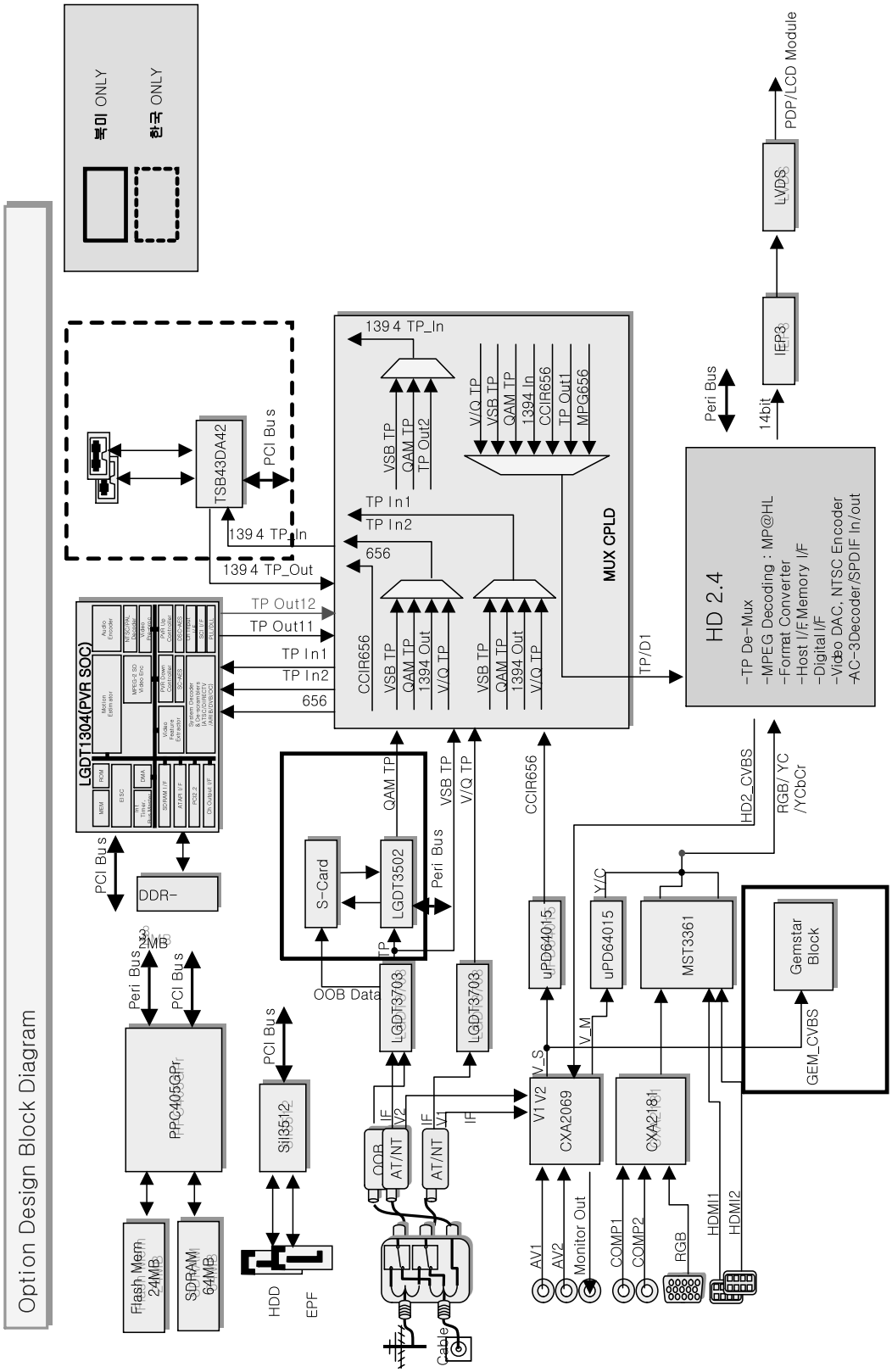
# BLOCK DIAGRAM



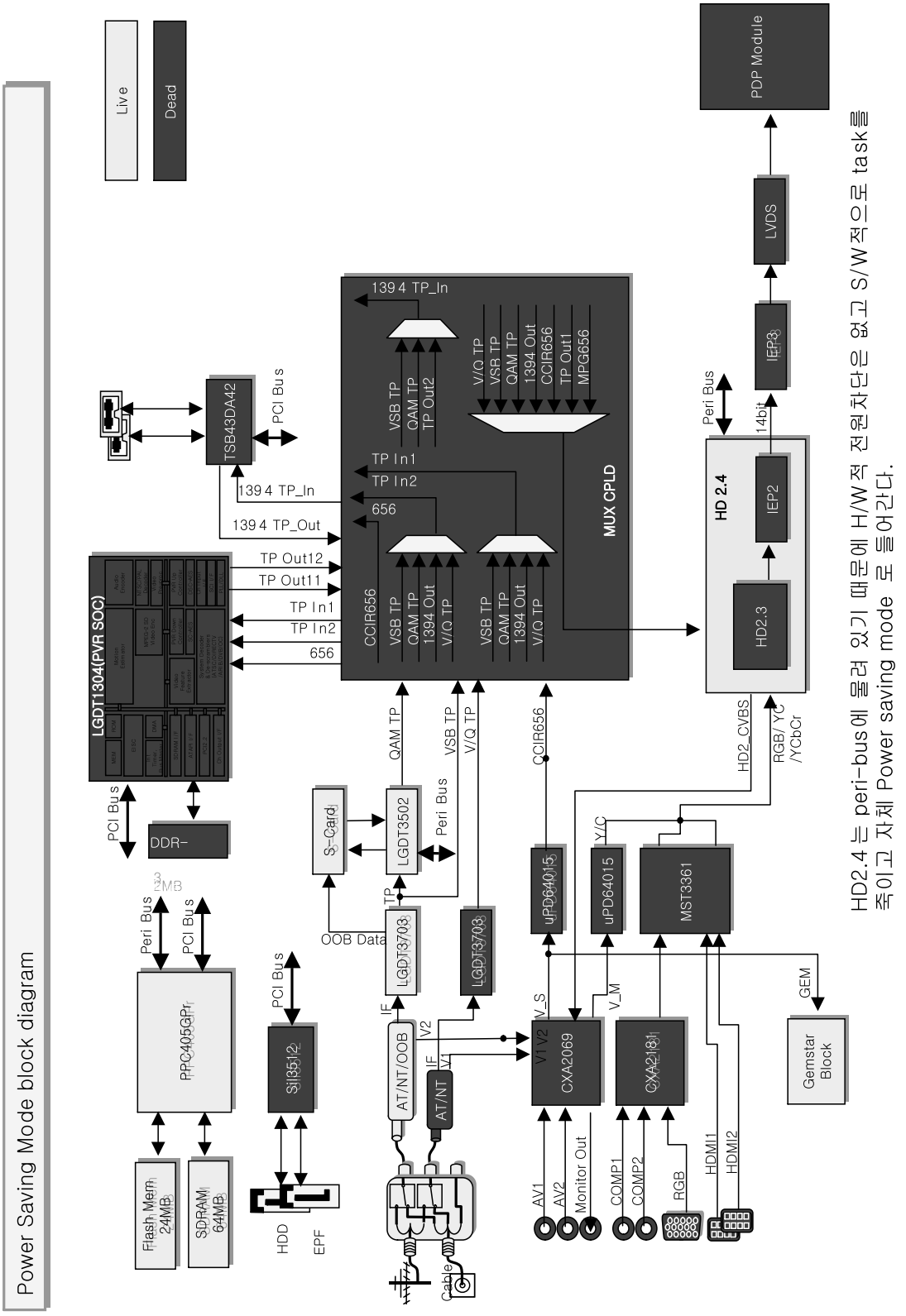
# BLOCK DIAGRAM



# BLOCK DIAGRAM

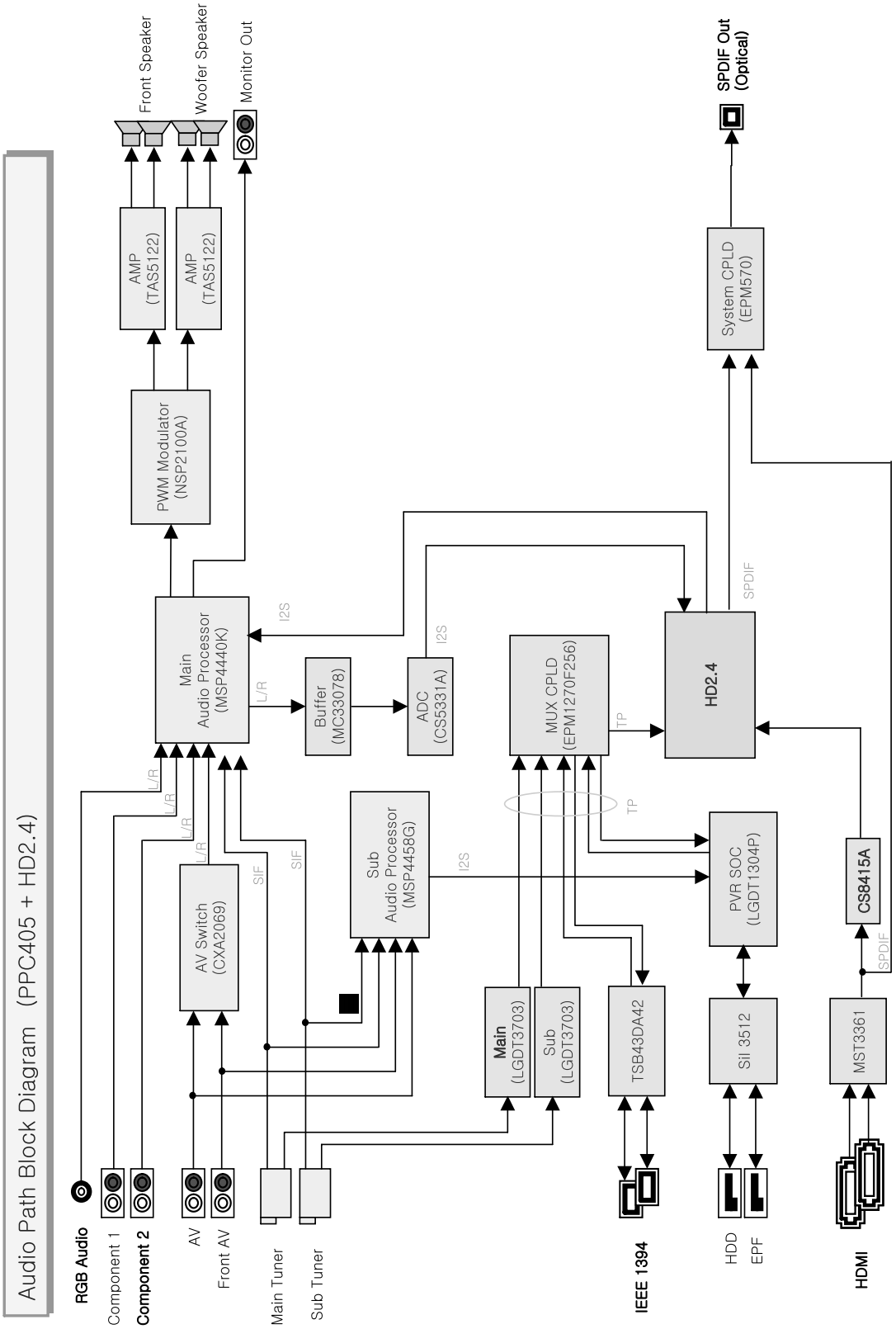


# BLOCK DIAGRAM

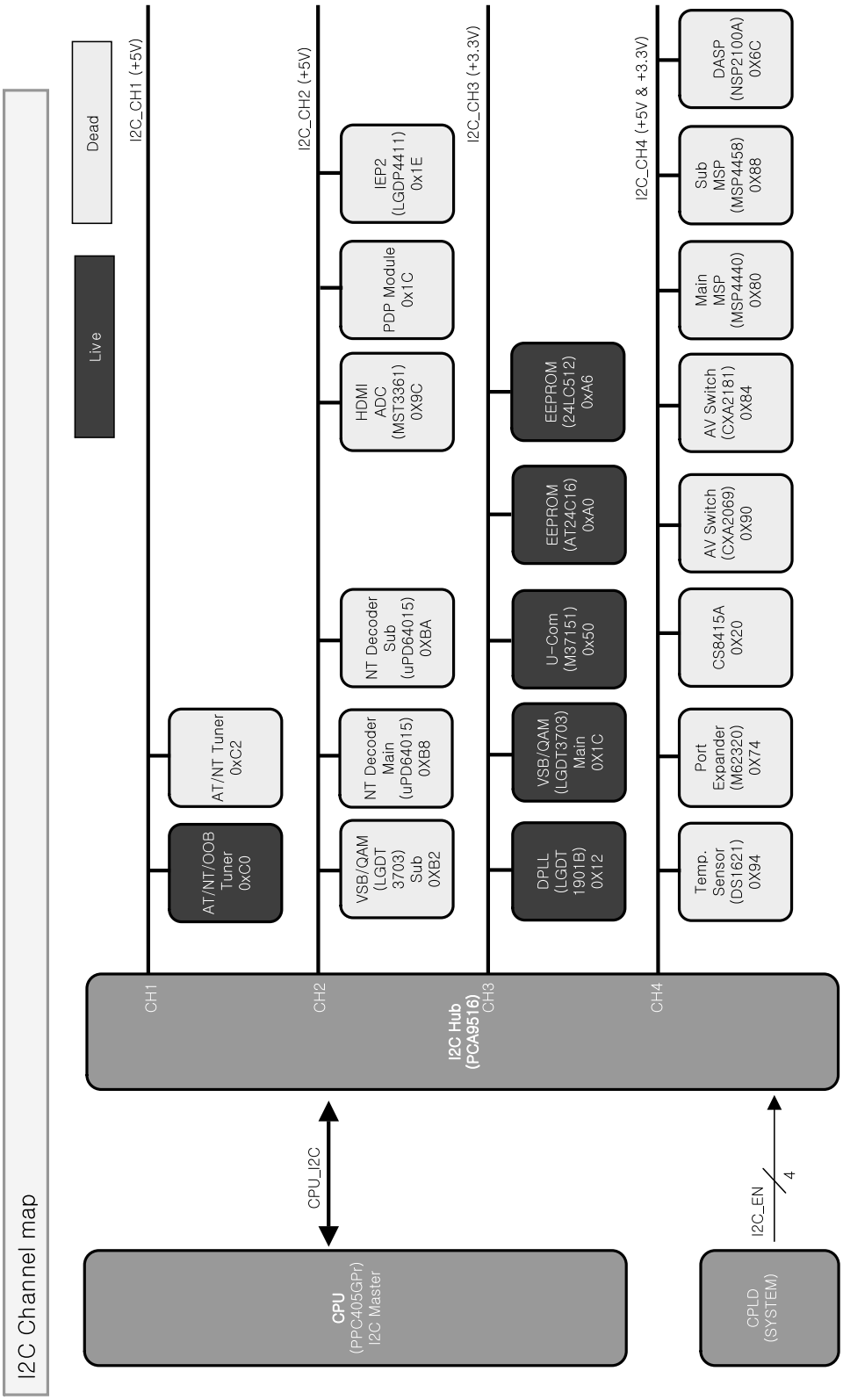



HD2.4 는 peri-bus에 물려 있기 때문에 H/W적 전원차단은 없고 S/W적으로 task를 죽이고 자체 Power saving mode 로 들어간다.

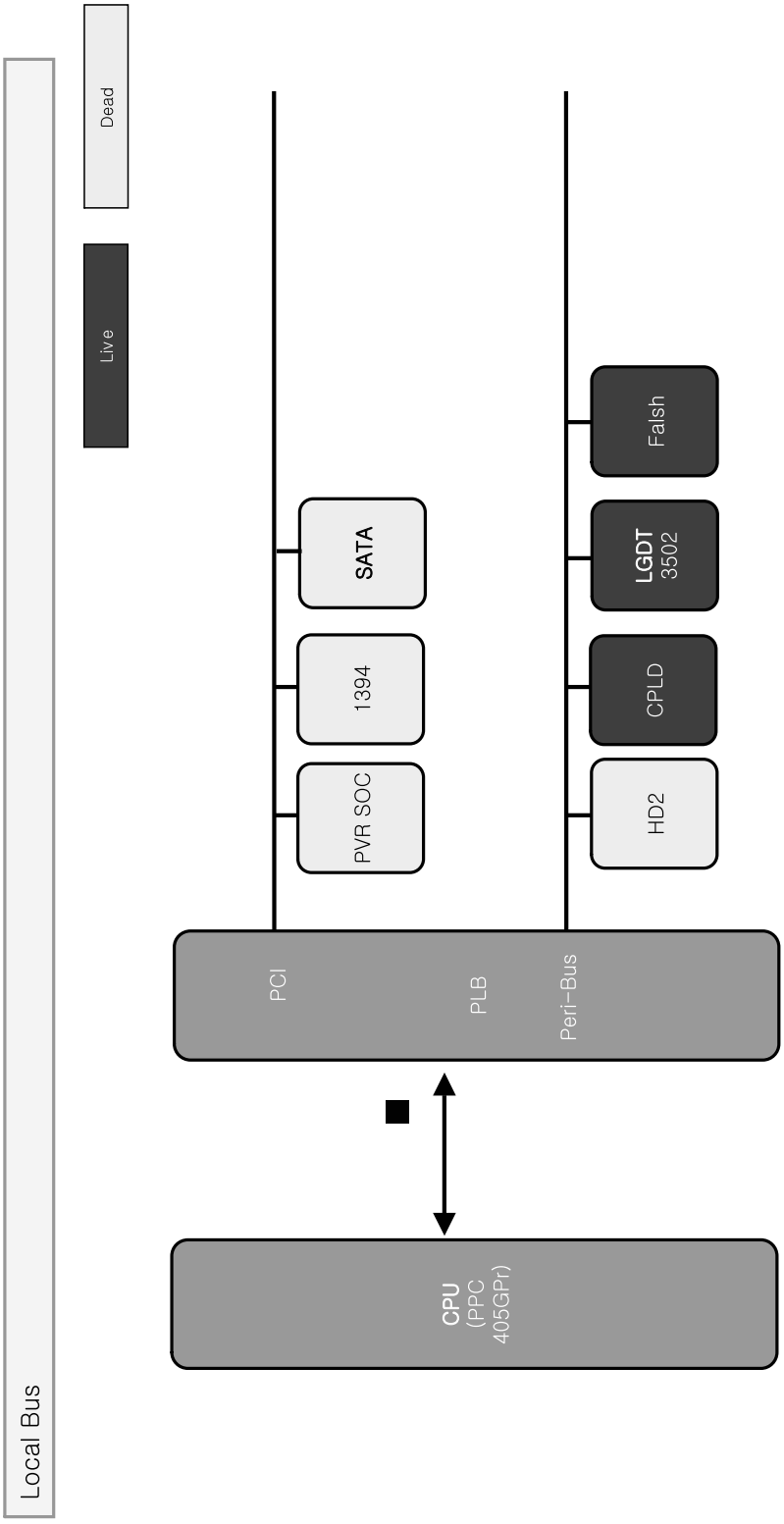
# BLOCK DIAGRAM



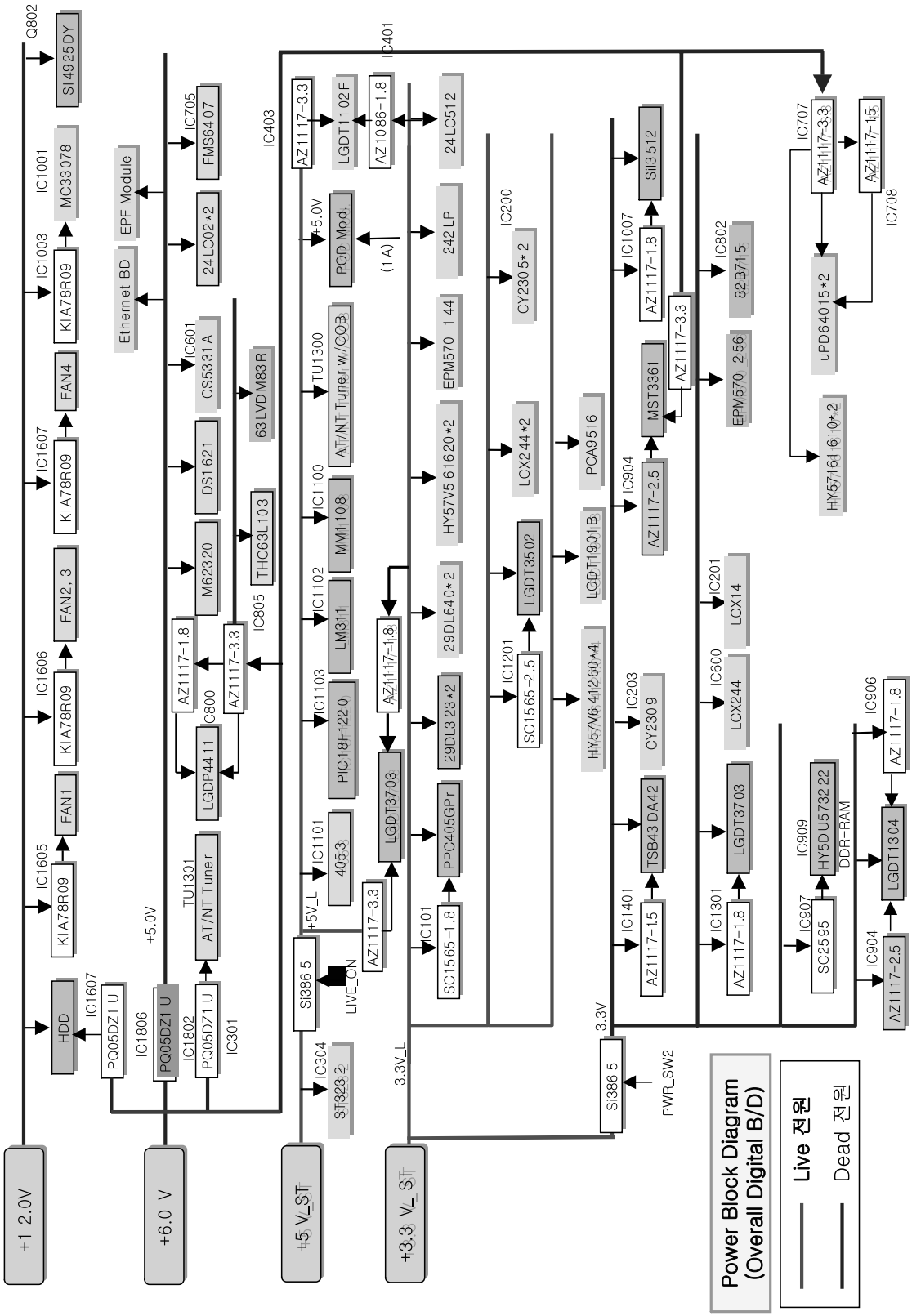
# BLOCK DIAGRAM



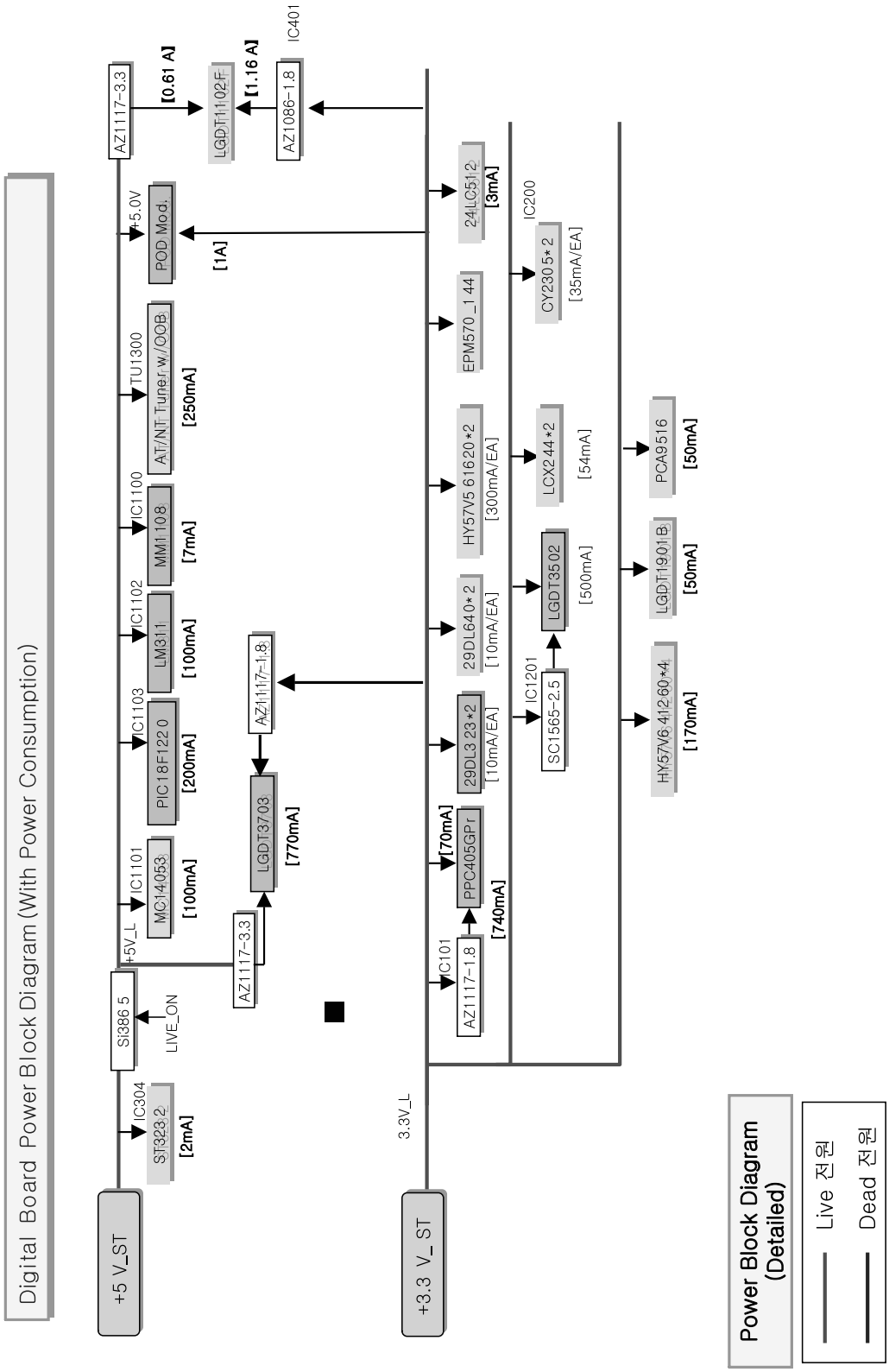
# BLOCK DIAGRAM



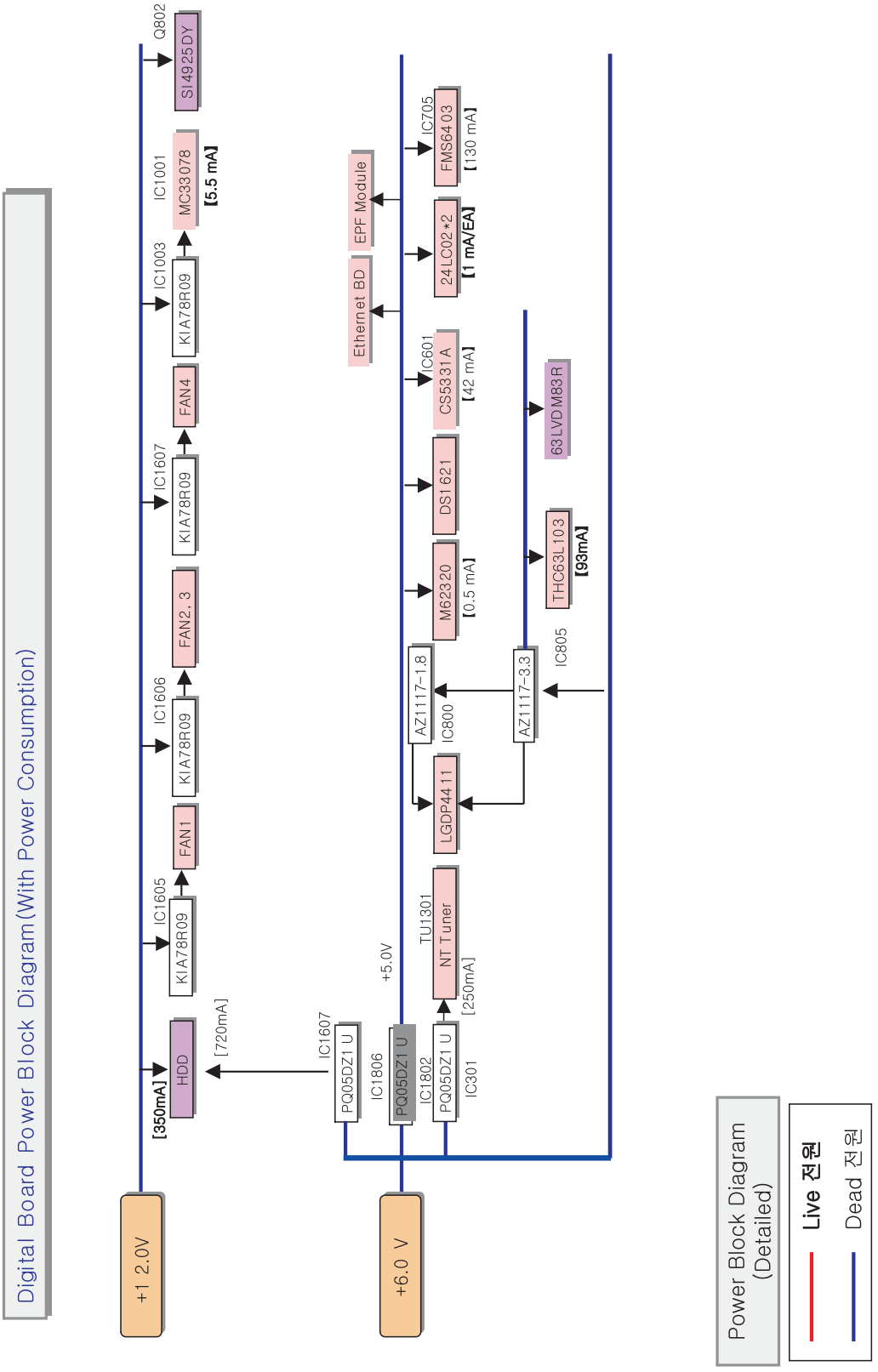
# BLOCK DIAGRAM



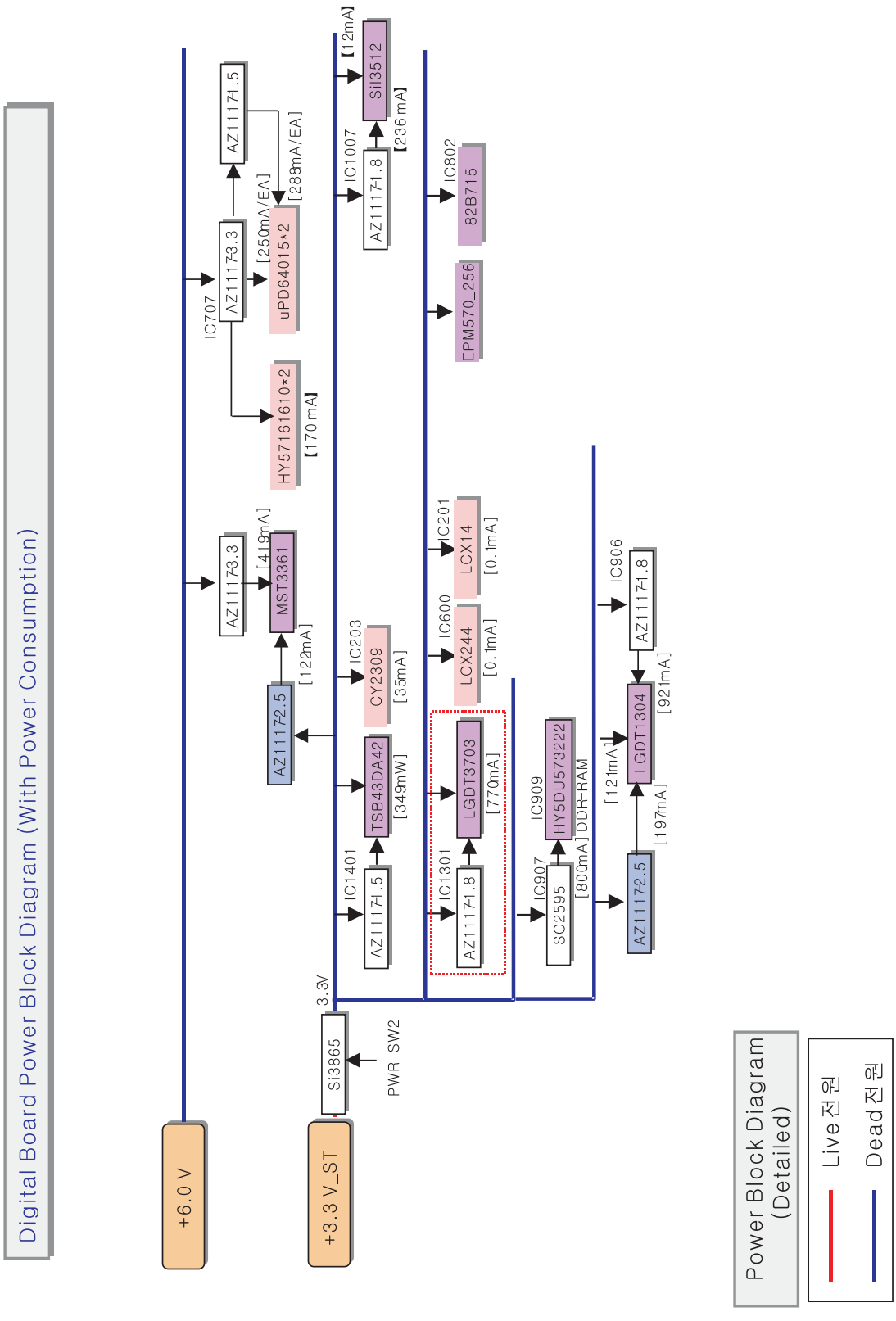
# BLOCK DIAGRAM



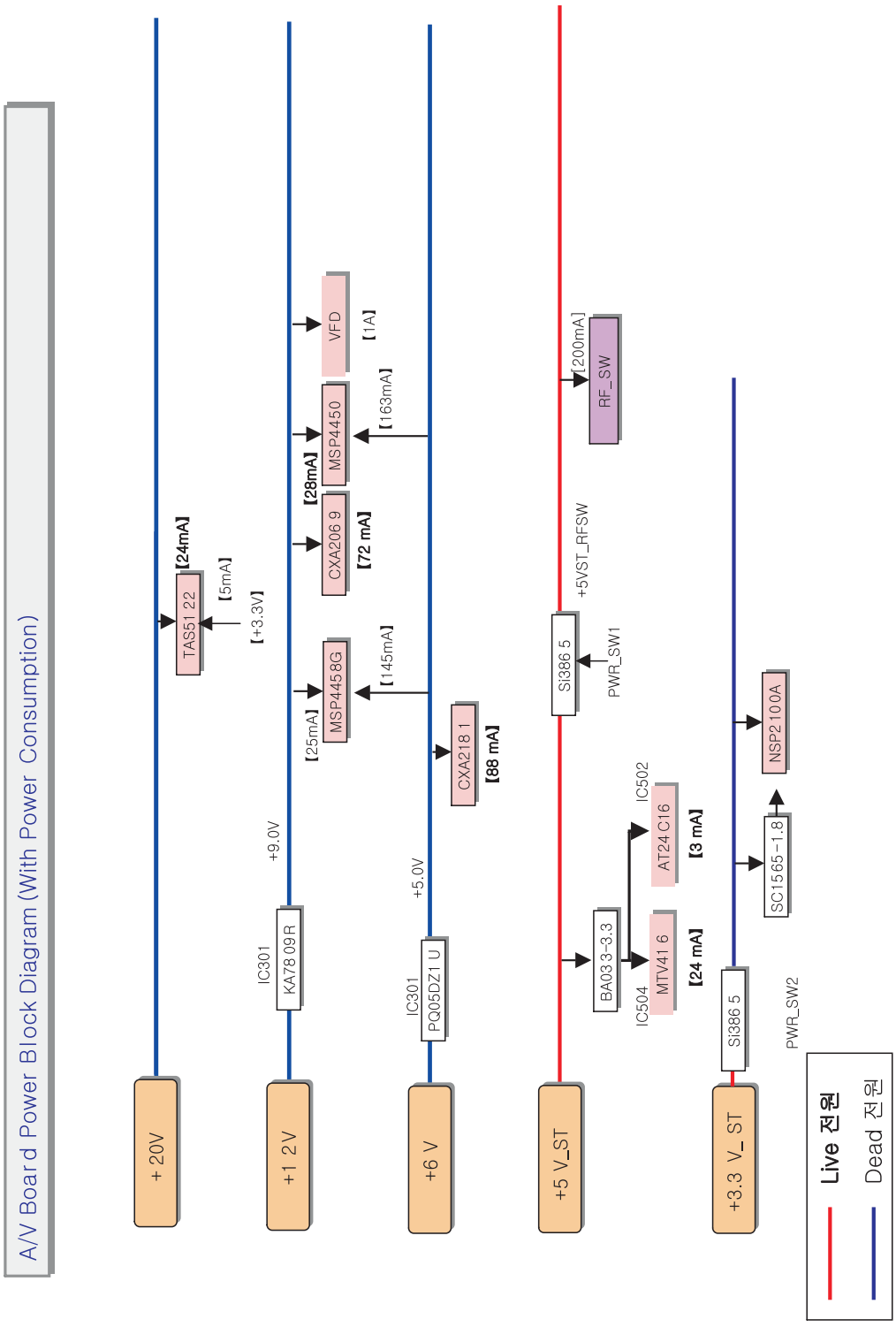
# BLOCK DIAGRAM



# BLOCK DIAGRAM

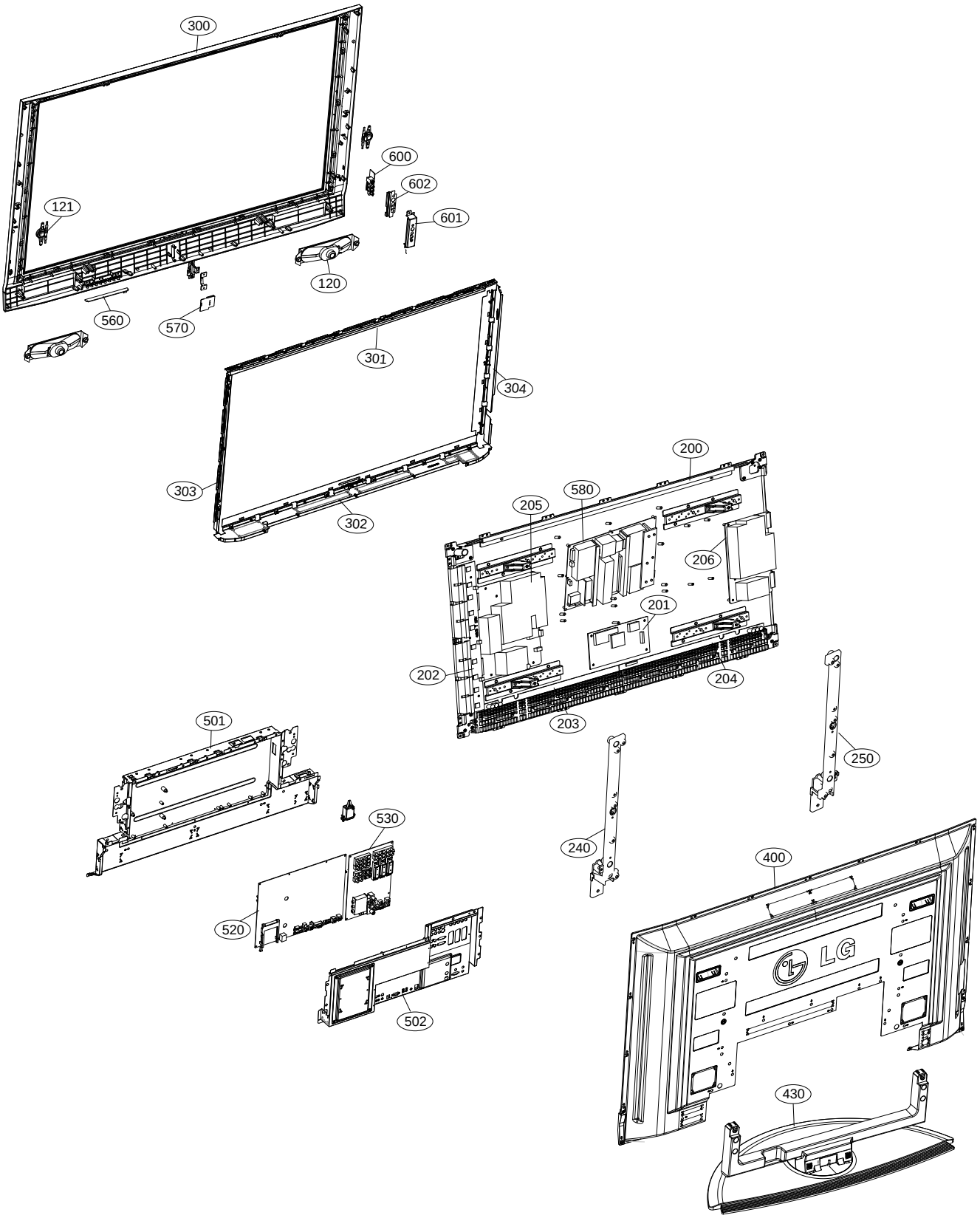


# BLOCK DIAGRAM



# NOTES

# EXPLODED VIEW



# EXPLODED VIEW PARTS LIST

| No. | Part No. | Description |
|---|---|---|
| 120 | 6400WMCX03A | SPEAKER,WOOFER G1560102 8OHM 15/20W 82DB OTHERS 100HZ 193*57MM |
| 121 | 6400DTTX02B | SPEAKER,TWEETER EN15D-6659 8OHM 15/20W 78DB OTHERS PC1 MODEL |
| 200 | 6348Q-E066H | PDP,42 1024*768 PDP42X30201.AKLGG |
| | 6348Q-E128N | PDP,42 1024*768 PDP42X30201.DDRSB |
| 201 | 6871QCH077A | PCB ASSEMBLY,DISPLAY CTRL ASSY 42HD 42X3 CTRL ASSY HAND |
| 202 | 6871QDH117A | PCB ASSEMBLY,DISPLAY YDRV ASSY 42HD 42X3 YDRV HAND INSERT |
| 203 | 6871QLH059A | PCB ASSEMBLY,DISPLAY XRLT ASSY 42HD 42X3 XRLT ASSY HAND |
| 204 | 6871QRH068A | PCB ASSEMBLY,DISPLAY XRRT ASSY 42HD 42X3 XRRT ASSY |
| 205 | 6871QYH053B | PCB ASSEMBLY,DISPLAY YSUS ASSY 42HD 42X3 VER.B |
| 206 | 6871QZH056B | PCB ASSEMBLY,DISPLAY ZSUS ASSY 42HD 42X3 VER.B |
| 240 | 4980900109A | SUPPORTER ASSY,AL 42PC1R-TA, VERTICAL RIGHT |
| | 4980900109C | SUPPORTER ASSY,AL 42PC1R-TA, VERTICAL RIGHT, C/SKD |
| 250 | 4980900109B | SUPPORTER ASSY,AL 42PC1R-TA, VERTICAL LEFT |
| | 4980900109D | SUPPORTER ASSY,AL 42PC1R-TA, VERTICAL LEFT, C/SKD |
| 300 | 30919E0024F | CABINET ASSEMBLY,42PC1DA-UB BRAND 30909E0008A 3211900003A(LG) |
| | 30919E0024P | CABINET ASSEMBLY,42PC1DA-UB BRAND C/SKD |
| 301 | 4980900113A | SUPPORTER ASSY,AL FILTER TOP 42PC1R-TA |
| | 4980900113B | SUPPORTER ASSY,AL FILTER TOP 42PC1R-TA C/SKD |
| 302 | 4980900114A | SUPPORTER ASSY,AL FILTER BOTTOM 42PC1R-TA |
| | 4980900114B | SUPPORTER ASSY,AL FILTER BOTTOM 42PC1R-TA C/SKD |
| 303 | 4980900115A | SUPPORTER ASSY,AL FILTER RIGHT 42PC1R-TA |
| | 4980900115B | SUPPORTER ASSY,AL FILTER RIGHT 42PC1R-TA, C/SKD |
| 304 | 4980900116A | SUPPORTER ASSY,AL FILTER LEFT 42PC1-TA |
| | 4980900116B | SUPPORTER ASSY,AL FILTER LEFT 42PC1-TA, C/SKD |
| 400 | 3809900103B | BACK COVER ASSEMBLY,42PC1D NON DIGITAL |
| | 3809900103G | BACK COVER ASSEMBLY,42PC1D DIGITAL 42PC1D C/SKD |
| 430 | 3501900014B | BOARD ASSEMBLY,D/T SPK STAND AP-42DC11 MF056A FOLDING STAND BK |
| | 3501900014D | BOARD ASSEMBLY,D/T SPK STAND FOLDING STAND BK LGERS C/SKD |
| 501 | 3301900095H | PLATE ASSEMBLY,AV 3301900098A 3300900017H(PRESS) 42PC I-DTV |
| 502 | 3301900092C | PLATE ASSEMBLY,DIGITAL COVER ASSY (PA61B) |
| | 3301900092P | PLATE ASSEMBLY,42PC1DA-UB DIGITAL COVER ASSY 2HDMI, C/SKD |
| 520 | 68719MM301A | PCB ASSEMBLY,MAIN PA61B 42PC1DA-UB EVEREST-II DIGITAL MANUAL |
| 530 | 68719SMK89A | PCB ASSEMBLY,SUB PA61B 42PC1DA-UB AUSLLAX ANALOG B/D MANUSL INSERT |
| 560 | 68719SMJ48A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA HAND CTRL KEY |
| | 68719SF990A | PCB ASSEMBLY,SUB PA61A 50PC1DR-UA SUSLLJR CONTROL KEY DMS SKD |
| 570 | 68719SMJ49A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA HAND PRE-AMP |
| | 68719SF900A | PCB ASSEMBLY,SUB PA61A 50PC1DR-UA SUSLLJR PRE AMP DMS SKD |
| 580 | 6709900023A | POWER SUPPLY ASSEMBLY,42INCH UNIFICATION PSU PDP SANKEN PA61B 400W |
| 600 | 68719SMJ70A | PCB ASSEMBLY,SUB PA61B 42PC1DA-UB AUSAALX SIDE A/V |
| 601 | 4811900021A | BRACKET ASSEMBLY,SIDE AV 42PC3D-UD PA51D NORTH AMERICA |
| | 4811900021E | BRACKET ASSEMBLY,SIDE AV 42PC1RV-ZJ PP61C VCTP,EU |
| 602 | 48149V0003A | SHIELD,SIDE AV 42PC1R |

# REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

RUN DATE : 2006.1.24

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| **IC** | | |
| IC100 | 0IPRPBM001B | PPC405GPR-3JB266C IBM E-PBGA,456 |
| IC1000 | 0ICB533100A | CS5331A-KSR 8SOIC |
| IC1001 | 0ISTL00029A | MC33078DR2G 8P |
| IC1003 | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V |
| IC1006 | 0ICB841500B | CS8415A-CZR 28P DIGITAL AUDIO |
| IC101 | 0ISO206900A | CXA2069Q QFP64 BK I2C BUS AV S/W |
| IC101 | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P |
| IC1100 | 0IMCRMT003A | MM1108XFFE MITSUMI 8P |
| IC1101 | 0ISTL00024A | MC14053BDR2G 16P |
| IC1102 | 0IPMGNS026A | LM311MX 8P |
| IC1103 | 0IMCRMP006A | PIC18F1220T-I/SO 28P |
| IC1200 | 0ICTMLG017A | LGDT3502B 208P |
| IC1201 | 0IMCRSJ001B | SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223 |
| IC1202 | 0IMCRFA013A | 74LCX244MTC FAIRCHILD 20P |
| IC1204 | 0IPRPML004B | MIC2562A-0YM 14PIN |
| IC1205 | 0IPRPML004B | MIC2562A-0YM 14PIN |
| IC1300 | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P |
| IC1300 | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263 |
| IC1301 | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P |
| IC1302 | 0IMCRSH001A | PQ05DZ1U SHARP 5 |
| IC1303 | 0IPRP00538A | FSA1156P6X-NL 6P |
| IC1304 | 0IPMGON013B | MC34063ADR2G SO-8P |
| IC1305 | 0ICTM00006B | LGDT3703D 128P |
| IC1306 | 0ICTM00006B | LGDT3703D 128P |
| IC1306 | 0ICTM00006C | LGDT3703B 128P |
| IC1307 | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P |
| IC1601 | 0IMCRSH001A | PQ05DZ1U SHARP 5 |
| IC1605 | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V |
| IC1606 | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V |
| IC201 | 0IMMRHY038E | HY57V561620CTP-H 54PIN |
| IC202 | 0IMMRHY038E | HY57V561620CTP-H 54PIN |
| IC202 | 0IMCRMN028C | MSP4450K-QA-D6 80P |
| IC203 | 0IMCRCY002A | CY2309SXC-1HT 16P R/TP 3.3V |
| IC206 | 0IMCRPH026B | PA9516APW 16P |
| IC209 | 0IMCRAL021A | AT24C512W-10SU-2.7 8PIN |
| IC210 | 0IMCRCY002A | CY2309SXC-1HT 16P R/TP 3.3V |
| IC301 | 0IPRP00687A | EPM570T144C5N 144P |
| IC301 | 0IMCRSH001A | PQ05DZ1U SHARP 5 |
| IC302 | 0IKE702900G | KIA7029AF SOT-89 TP 2.9V |
| IC302 | 0IMCRSJ001A | SC1565IST-1.8 3P SOT223 |
| IC303 | 0IMCRFA010A | KA7809R, FAIRCHILD 2P |
| IC303 | 0IMCRFA013A | 74LCX244MTC 20P |
| IC304 | 0IPRP00009A | ICL3232CBNZ 16P/SOP R/TP RS232 |
| IC304 | 0IMCRRH001A | BA033FP-E2 3P-SOP,TO252-3 |
| IC305 | 0IPRP00687B | EPM570F256C5N ALTERA 256P |
| IC306 | 0ISTLPH026A | 74LVC14APW 14PIN |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| IC401 | 0ILNR00015A | NSP-2100A 64P DIGTAL AUDIO |
| IC401 | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263 |
| IC402 | 0ICTMLG009E | LGDT1102F HD2.4 432P |
| IC403 | 0IMCRTI028C | TAS5122DCARG4 56P |
| IC403 | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P |
| IC500 | 0IMMR00141A | HY57V641620ETP-6 54PIN |
| IC501 | 0IMMR00141A | HY57V641620ETP-6 54PIN |
| IC501 | 0IMCRSO025A | CXA2181Q 48P VIDEO SYNC SELECTOR |
| IC502 | 0IMMR00141A | HY57V641620ETP-6 54PIN TSOP2 |
| IC502 | 0IMCRAL006A | AT24C16AN-10SU-2.7 8P EEPROM |
| IC503 | 0IMMR00141A | HY57V641620ETP-6 54PIN TSOP2 |
| IC503 | 0IKE702900G | KIA7029AF SOT-89 TP 2.9V |
| IC504 | 0IMCRCY002A | CY2309SXC-1HT 16P R/TP 3.3V |
| IC505 | 0ICTMLG013B | LGDT1901B LG IC SSOP 24P |
| IC505 | 0ISTL00024A | MC14053BDR2G 16P |
| IC601 | 0IMMRAL014B | AT24C02N-10SI-2.7 8P |
| IC601 | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P |
| IC602 | 0IPH740800H | 74F08D 14P |
| IC603 | 0IPRP00696A | MST3361M-LF-110 128P |
| IC604 | 0IMMRCS012B | CAT24WC08W-T(MST3000) 8P |
| IC605 | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P |
| IC606 | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P |
| IC607 | 0IPRPFA016A | FMS6407MTC20X-NL(PB-FREE) 20P |
| IC609 | 0IMCRSJ001B | SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223 |
| IC610 | 0IPRPFA016A | FMS6407MTC20X-NL(PB-FREE) 20P |
| IC701 | 0IPRPNE011B | UPD64015AGM-UEU-A,LF NEC 176P |
| IC702 | 0IPRPFA015B | FMS6400CS1X 8P |
| IC703 | 0IMMR00080A | HY57V161610ETP-6 50PIN TSOP2 |
| IC704 | 0IPRPFA015B | FMS6400CS1X 8P |
| IC705 | 0IPRPNE011B | UPD64015AGM-UEU-A 176P |
| IC706 | 0IMMR00080A | HY57V161610ETP-6 50PIN TSOP2 |
| IC707 | 0IPMGA0010A | AZ1117H-3.3 SOT-223 3P R/TP 3.3V 1A |
| IC708 | 0IPMG00028A | AZ1117H-1.5TRE1 BCD 3P/SOT-223 |
| IC801 | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P |
| IC802 | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P |
| IC802 | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263 |
| IC803 | 0IMCRTH002A | THC63LVD103 64P |
| IC804 | 0ICTMLG018C | LGDP4412, IEP3 452P |
| IC906 | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263 |
| **TRANSISTOR** | | |
| Q101 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q102 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q102 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q103 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q105 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q106 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q107 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| Q108 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q109 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q110 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q1100 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q1101 | 0TR390609DC | 2N3906S-RTK SOT23 -40V -0.2A |
| Q1103 | 0TR390609DC | 2N3906S-RTK SOT23 -40V -0.2A |
| Q112 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q1300 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q1301 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q1302 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q1303 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q1305 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q1309 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q1311 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q1312 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q1600 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE |
| Q1602 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE |
| Q1603 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE |
| Q201 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q202 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q203 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q204 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q205 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q206 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q207 | 0TR102009AM | KRA102S SOT23 -50V -0.1A |
| Q301 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE |
| Q303 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE |
| Q500 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q501 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q501 | 0TRIH80002A | 2SA1530A-T112-1R SC-59 |
| Q502 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q503 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q504 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q508 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q509 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q510 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q511 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q512 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q513 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q514 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q515 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q516 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q517 | 0TR102009AM | KRA102S SOT23 -50V -0.1A |
| Q601 | 0TR102009AJ | KRC102S SOT23 50V 0.1A |
| Q602 | 0TR102009AJ | KRC102S SOT23 50V 0.1A |
| Q603 | 0TR830009BA | BSS83 |
| Q604 | 0TR830009BA | BSS83 |
| Q605 | 0TR102009AJ | KRC102S SOT23 50V 0.1A |
| Q605 | 0TR830009BA | BSS83 |
| Q606 | 0TR830009BA | BSS83 |
| Q606 | 0TR830009BA | BSS83 |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| Q607 | 0TR830009BA | BSS83 |
| Q608 | 0TR830009BA | BSS83 |
| Q609 | 0TR830009BA | BSS83 |
| Q610 | 0TR102009AJ | KRC102S SOT23 50V 0.1A |
| Q611 | 0TR102009AJ | KRC102S SOT23 50V 0.1A |
| Q612 | 0TRIH80003A | RT1N141C-T112-1 SC-59 50V |
| Q613 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q614 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q615 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q616 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q617 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q618 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q619 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q620 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q621 | 0TRIY80001A | 2SC3052 50V 200MA |
| Q701 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q702 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q703 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q704 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q705 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q706 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| Q707 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC |
| Q708 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC |
| **DIODE** | | |
| D101 | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A |
| D102 | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A |
| D1300 | 0DS113379BA | 1SS133 T-72 DO34 90V |
| D1301 | 0DL233309AC | LED,SAM2333 |
| D1303 | 0DL233309AC | LED,SAM2333 |
| D1601 | 0DL233309AC | LED,SAM2333 |
| D1602 | 0DL233309AC | LED,SAM2333 |
| D1603 | 0DL233309AC | LED,SAM2333 |
| D1604 | 0DL233309AC | LED,SAM2333 |
| D300 | 0DL233309AC | LED,SAM2333 |
| D301 | 0DL233309AC | LED,SAM2333 |
| D302 | 0DRSE00038A | SDC15 TVS SOT23 12.8V |
| D303 | 0DRSE00038A | SDC15 TVS SOT23 12.8V |
| D501 | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A 0.3A |
| D600 | 0DRSE00048A | RLCAMP0504M MSOP 10L,3P,5V |
| D601 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D602 | 0DD184009AA | KDS184 TP KEC - 85V - 300MA |
| D603 | 0DRSE00048A | RLCAMP0504M 10L,3P,5V |
| D604 | 0DRSE00048A | RLCAMP0504M 10L,3P,5V |
| D605 | 0DRSE00048A | RLCAMP0504M 10L,3P,5V |
| LD101 | 0DLAU0410AA | LED,AUK SAW5670 |
| ZD101 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD102 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD107 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD108 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD109 | 0DZ560009DA | ZENERS,UDZ S 5.6B |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| ZD202 | 0DZRM00248A | ZENERS,RLZ8.2B-TE11 |
| ZD601 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD602 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD603 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD604 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD605 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD606 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD618 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD619 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD620 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD621 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| ZD622 | 0DZ560009DA | ZENERS,UDZ S 5.6B |
| **CAPACITOR** | | |
| C100 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% |
| C1000 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1001 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C1002 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C1003 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C1005 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1006 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C101 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C101 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C101 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C1012 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1013 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C1014 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C1015 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C1017 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1017 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C102 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C102 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C102 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C102 | 0CC330CK41A | 33PF 1608 50V 5% R/TP NP0 |
| C1020 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1022 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C103 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C103 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1032 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C104 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C104 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1044 | 0CK472CK56A | 4700PF 1608 50V 10% R/TP X7R |
| C1045 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C1046 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C105 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C105 | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5 |
| C1051 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1056 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1059 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C106 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C107 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C108 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C109 | 0CE225WK6DC | 2.2UF MVK,RC 50V 20% SMD TAPPING |
| C110 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C1100 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C1102 | 0CK392CK56A | 3900PF 1608 50V 10% R/TP X7R |
| C1104 | 0CC561CK41A | 560PF 1608 50V 5% NP0 R/TP |
| C1105 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C1106 | 0CC561CK41A | 560PF 1608 50V 5% NP0 R/TP |
| C1107 | 0CE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD) SMD |
| C1108 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C1109 | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP |
| C111 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C1110 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1111 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1112 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1113 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1115 | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20% SMD TAPPING |
| C1117 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C1118 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C112 | 0CE225WK6DC | 2.2UF MVK,RC 50V 20% SMD TAPPING |
| C113 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C114 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C115 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C116 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C116 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C117 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C117 | 0CE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD |
| C118 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C119 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C120 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C1200 | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0 |
| C1204 | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0 |
| C1209 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C121 | 0CE225WK6DC | 2.2UF MVK,RC 50V 20% SMD TAPPING |
| C1213 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1216 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1217 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1218 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C122 | 0CE225WK6DC | 2.2UF MVK,RC 50V 20% SMD TAPPING |
| C1223 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C123 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C123 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1231 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1232 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1234 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1235 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1236 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1237 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1238 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1238 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C124 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C124 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C125 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C126 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C126 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C127 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C1301 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C1302 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1304 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1306 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1307 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1308 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1309 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1310 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1311 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1312 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1313 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1314 | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0 |
| C1315 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1316 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1317 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1319 | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0 |
| C132 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C1320 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1322 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1324 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1325 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1326 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1329 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C133 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C1330 | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP |
| C1330 | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP |
| C1331 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1332 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C1334 | 0CE476WK6DC | 47UF MVK 50V 20% R/TP(SMD) SMD |
| C1334 | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20% SMD TAPPING |
| C134 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C1341 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1341 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1342 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1345 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1346 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1348 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1349 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C135 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C1352 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1354 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1355 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1356 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1357 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C1358 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1359 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C1360 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1361 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1362 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1362 | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0 |
| C1363 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1363 | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0 |
| C1370 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1386 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1387 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1389 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1390 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1391 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1392 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1393 | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP |
| C1395 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1396 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1604 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1607 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1607 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1608 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1608 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C1613 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1613 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1616 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C1616 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C1617 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C1618 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1623 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C1625 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1626 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C1628 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C200 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C206 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C211 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C216 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C217 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C218 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C223 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C229 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C230 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C232 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C236 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C238 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C239 | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0 |
| C240 | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0 |
| C241 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C242 | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0 |
| C243 | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0 |
| C244 | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0 |
| C245 | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20% SMD TAPPING |
| C246 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C247 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C248 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C249 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C250 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C251 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C252 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C253 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C254 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C255 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C256 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C257 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C258 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C259 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C260 | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R |
| C261 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C262 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C263 | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20% SMD TAPPING |
| C264 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C265 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C266 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C267 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C268 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C269 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C270 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C271 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C272 | 0CE475WK6DC | 4.7UF MVK,RC 50V 20% SMD TAPPING |
| C273 | 0CE475WK6DC | 4.7UF MVK,RC 50V 20% SMD TAPPING |
| C274 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3000 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3001 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3002 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C3003 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C3005 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C301 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C302 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C303 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3039 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C304 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C304 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C3041 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C3044 | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0 |
| C3044 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C3045 | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0 |
| C3046 | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0 |
| C3047 | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0 |
| C305 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C306 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C307 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3070 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C3070 | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0 |
| C3071 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C3071 | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0 |
| C3074 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C3075 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3076 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C3077 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C3078 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C3079 | 0CK226FF67A | 22UF 3225 16V 20% X5R R/TP |
| C308 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C3080 | 0CK226FF67A | 22UF 3225 16V 20% X5R R/TP |
| C3081 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C309 | 0CE686SJ6D8 | 68UF MVG,MC,VC 35V 20% SMD TAPPING |
| C311 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C312 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C312 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C313 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C314 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C315 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C316 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C316 | 0CK334CF94A | 0.33UF 1608 16V 80%,-20% F(Y5V) R/TP |
| C317 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C317 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C319 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C320 | 0CE686SJ6D8 | 68UF MVG,MC,VC 35V 20% SMD TAPPING |
| C321 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C322 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C322 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C323 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C325 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C326 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C326 | 0CC221CK41A | 220PF 1608 50V 5% R/TP NP0 |
| C327 | 0CC221CK41A | 220PF 1608 50V 5% R/TP NP0 |
| C327 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C328 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C328 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C329 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C330 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C331 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C332 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C332 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C333 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C335 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C337 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C338 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C339 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C340 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C341 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C342 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C343 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C344 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C345 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C346 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C347 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C348 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C348 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C349 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C349 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C350 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C350 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C351 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C351 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C352 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C352 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C353 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C354 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C355 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C356 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C357 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C358 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C359 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C360 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C361 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C362 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C363 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C364 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C366 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C367 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C368 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C369 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C370 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C371 | 0CE686SJ6D8 | 68UF MVG,MC,VC 35V 20% SMD TAPPING |
| C372 | 0CE686SJ6D8 | 68UF MVG,MC,VC 35V 20% SMD TAPPING |
| C373 | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C401 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C401 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C402 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C403 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C404 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C404 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C405 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C406 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C407 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C408 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C409 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C410 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C411 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C412 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C413 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C414 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C415 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C416 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C417 | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0 |
| C418 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C419 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C421 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C422 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C423 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C426 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C428 | 0CE106SK6DC | 10UF MVG 50V 20% SMD R/TP |
| C429 | 0CE106SK6DC | 10UF MVG 50V 20% SMD R/TP |
| C431 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C434 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C436 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C438 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C439 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C444 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C445 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C446 | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R |
| C447 | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R |
| C448 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C449 | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R |
| C450 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C451 | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R |
| C452 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C453 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C454 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C455 | 0CE337WJ6D8 | 330UF MVK,RC 35V 20% SMD TAPPING |
| C460 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C461 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C461 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C462 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C463 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C463 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C464 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C465 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C465 | 0CK474EK66A | 0.47UF 3216 50V 20% X7R R/TP |
| C466 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C467 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C467 | 0CK474EK66A | 0.47UF 3216 50V 20% X7R R/TP |
| C468 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C468 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C469 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C470 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C470 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C471 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C472 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C473 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C473 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C474 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C474 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C475 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C476 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C477 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C479 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C480 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C481 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C482 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C501 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C502 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C503 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C504 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C504 | 0CK472CK56A | 4700PF 1608 50V 10% R/TP X7R |
| C505 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C506 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C507 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C508 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C508 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C509 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C509 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C510 | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) |
| C511 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C511 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C512 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C513 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C514 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C515 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C516 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C517 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C517 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C518 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C518 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C519 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C520 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C521 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C522 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C522 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C523 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C524 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C525 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C526 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C526 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C527 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C528 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C528 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C529 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C529 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C530 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C530 | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R |
| C531 | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R |
| C531 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C532 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C532 | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD |
| C533 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C534 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C534 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C535 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C535 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C536 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C537 | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R |
| C537 | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0 |
| C538 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C538 | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0 |
| C539 | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R |
| C540 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C541 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C542 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C543 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C544 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C601 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C601 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C602 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C603 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C604 | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0 |
| C607 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C608 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C608 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C611 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C612 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C613 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C614 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C615 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C616 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C617 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C619 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C621 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C623 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C623 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C624 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C625 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C626 | 0CE476WH6DC | 47UF MVK 25V 20% SMD R/TP(SMD) |
| C627 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C627 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C628 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C629 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C629 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C630 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C631 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C631 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C632 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C632 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C633 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C633 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C634 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C634 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C635 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C635 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C636 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C636 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C637 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C637 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C638 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C639 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C639 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C640 | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0 |
| C644 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C645 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C646 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C647 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C648 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C649 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C650 | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R |
| C650 | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0 |
| C651 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C652 | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0 |
| C653 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C654 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C655 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C656 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C657 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C658 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C659 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C666 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C667 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C668 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C672 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C7001 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C7002 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C7003 | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C7005 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C7006 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C7007 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C702 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C7028 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C7029 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C703 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C7043 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7046 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7048 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7049 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7052 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7053 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7054 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C708 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C709 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C711 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C718 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C719 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| C720 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C725 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C729 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C730 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C731 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C732 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C733 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C734 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C735 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C737 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C758 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C759 | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0 |
| C773 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C774 | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD |
| C779 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C780 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C781 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C784 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C789 | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R |
| C794 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C797 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C798 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C799 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C801 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C802 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C803 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C804 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C806 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C807 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C808 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C810 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C813 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C815 | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C817 | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R |
| C822 | 0CE106WFKDC | 10UF MVK 16V 20%,-20% SMD R/TP(SMD) |
| C828 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C838 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C840 | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C842 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C844 | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R |
| C936 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| C945 | 0CE477WF6DC | 470UF MVK 16V 20% SMD R/TP(SMD) |
| **COIL** | | |
| L1601 | 6140VB0004B | COIL,CHOKE 26UH |
| L1602 | 6140VB0004B | COIL,CHOKE 26UH |
| L302 | 6140VB0004B | COIL,CHOKE 26UH |
| L303 | 6140VB0004B | COIL,CHOKE 26UH |
| L304 | 6140VB0004B | COIL,CHOKE 26UH |
| L306 | 6140VB0004B | COIL,CHOKE 26UH |
| L408 | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15% |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| L409 | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15% |
| L410 | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15% |
| L411 | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15% |
| **WAFER** | | |
| C21 | 366-036B | CONNECTOR,WAFER STAPLE |
| P100 | 6630V90142A | CONNECTOR,WAFER TPH254-R-1419-6A |
| P100 | 6602T20009J | CONNECTOR,WAFER SMAW200-10 |
| P100 | 6602T20009C | CONNECTOR,WAFER SMAW200-04 |
| P100 | 6602T20009L | CONNECTOR,WAFER SMAW200-12 |
| P101 | 6602T20009C | CONNECTOR,WAFER SMAW200-04 |
| P104 | 6602T20009L | CONNECTOR,WAFER SMAW200-12 |
| P1100 | 366-921D | WAFER,IL-G-05 LGC 2.5MM S/T |
| P1101 | 366-921D | WAFER,IL-G-05 LGC 2.5MM S/T |
| P1200 | 6630VE01269 | CONNECTOR,WAFER 91932-31169LF |
| P1603 | 6602T25008L | CONNECTOR,WAFER SMW250-12 |
| P1604 | 6602T25008M | WAFER,SMW250-13 |
| P1605 | 366-932E | CONNECTOR,WAFER 6PIN 2.54MM |
| P1610 | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02 |
| P1611 | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02 |
| P1612 | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02 |
| P1614 | 6602T12004C | CONNECTOR,WAFER 12505WS-04A00 |
| P300 | 366-932E | CONNECTOR,WAFER 6PIN 2.54MM |
| P301 | 6602T25009J | WAFER SMAW250-10 |
| P403 | 6602T25009C | WAFER SMAW250-04 Y |
| P404 | 6602T25009B | CONNECTOR,WAFER SMAW250-03 |
| P602 | 6602T20009J | CONNECTOR,WAFER SMAW200-10 |
| P605 | 6602T20009J | CONNECTOR,WAFER SMAW200-10 |
| P801 | 6602T12007D | CONNECTOR,WAFER GT121-31P-TD |
| **CONNECTOR** | | |
| C10 | 6631900012J | CONNECTOR ASSEMBLY,10P 2.5MM 500MM |
| C11 | 6631900027E | CONNECTOR ASSEMBLY,13P 2.5MM 300MM |
| C12 | 6631900065C | CONNECTOR ASSEMBLY,12P 2.5MM 350MM |
| C13 | 6631900099C | CONNECTOR ASSEMBLY,3P 2.5MM 400MM |
| C14 | 6631900100C | CONNECTOR ASSEMBLY,4P 2.5MM 1200MM |
| C15 | 6631900101A | CONNECTOR ASSEMBLY,10P 2.0MM 300MM |
| C16 | 6631900104A | CONNECTOR ASSEMBLY,12P 2.0MM 400MM |
| C17 | 6631V10004A | CONNECTOR ASSEMBLY,31P 1.0MM 80MM |
| C18 | 6631V10004Z | CONNECTOR ASSEMBLY,31P 1.0MM 50MM |
| C19 | 6631T39004D | CONNECTOR ASSEMBLY,9P-9P H-H 220MM |
| C20 | 6631V39013N | CONNECTOR ASSEMBLY,8P 3.96MM 900MM |
| C5 | 6631900105C | CONNECTOR ASSEMBLY,12P 2.0MM 700MM |
| C6 | 6631T20033J | CONNECTOR ASSEMBLY,4P-4P H-H 300MM |
| C7 | 6631900106C | CONNECTOR ASSEMBLY,10P 2.0MM 900MM |
| C8 | 6631900097A | CONNECTOR ASSEMBLY,3P 2.5MM 350/500MM |
| C9 | 6631900098A | CONNECTOR ASSEMBLY,4P 2.5MM 350/500MM |
| CN300 | 6630G70017A | CONNECTOR,D-SUB A02-0915-101 |
| J601 | 6630G70016A | CONNECTOR,D-SUB A03-7071-094 |
| P101 | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L |
| P102 | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| P103 | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L |
| P1613 | 6630CE00168 | CONNECTOR,CARD BUS 10003526-150CALF |
| **JACK** | | |
| J100 | 6612J10033A | JACK,RCA PMJ016-13 3P |
| J101 | 6612J00062N | JACK,RCA PMJ030-02 6P |
| J601 | 6612B00015B | JACK,DIN DC1R019WDH JAE 0.5MM |
| J602 | 6612B00015B | JACK,DIN DC1R019WDH JAE 0.5MM |
| J602 | 6612J10031A | JACK,RCA PPJ209-02 5P |
| J603 | 6612J10031A | JACK,RCA PPJ209-02 5P |
| J604 | 6612F00099A | JACK,PHONE PEJ024-01 7P 10MM |
| J605 | 6612F00099A | JACK,PHONE PEJ024-01 7P 10MM |
| JK100 | 6612BBBHN4D | JACK,DIN TOTX177 |
| **RESISTOR** | | |
| AR1300 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR1302 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR1304 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR306 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR307 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR308 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR309 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR310 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR400 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR401 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR402 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR403 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR404 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR405 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR406 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR407 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR408 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR601 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR602 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR603 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR604 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR605 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR606 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR607 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR608 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR701 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR702 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR703 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR704 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR708 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR709 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR801 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR802 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR803 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR804 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR805 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| AR806 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR807 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR808 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| AR809 | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5% |
| R1302 | 0RD0331H609 | 3.3 OHM 1/2 W 5.00% TA52 |
| R505 | 0RN1002F409 | 10K OHM 1/6 W 1.00% TA52 |
| **SWITCH** | | |
| SW101 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW102 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW103 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW104 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW105 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW106 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW107 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW108 | 140-313B | SWITCH,TACT 2LEAD 160G(TA) |
| SW300 | 6600VR1004A | SWITCH,TACT SKHMPW 5P |
| SW301 | 6600VR1004A | SWITCH,TACT SKHMPW 5P |
| **FILTER & CRYSTAL** | | |
| B116 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| B200 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| B201 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| B202 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| B203 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1100 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1200 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1201 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1300 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1301 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1302 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1303 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1308 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1311 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1312 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1315 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1316 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1317 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1318 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1319 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1325 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1326 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L1327 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L301 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L301 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L305 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L308 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L309 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L310 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L311 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L312 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| L313 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L315 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L316 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L401 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L401 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L402 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L402 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L403 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L403 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L404 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L404 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L413 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L414 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L415 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L416 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L417 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L418 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L419 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L420 | 6210TCE001S | FILTER,EMC HU-1M2012-121 |
| L501 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L503 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L503 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L504 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L601 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L601 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L602 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L603 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
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| L608 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L611 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L612 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L612 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L616 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| L701 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L702 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L703 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L704 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L705 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L706 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L707 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L801 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L802 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L803 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L804 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L805 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L806 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| L807 | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| X1100 | 6212AB2015E | RESONATOR,CRYSTAL HC-49/SM 10.0MHZ |

# REPLACEMENT PARTS LIST

| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|
| X1200 | 6212AC2001D | RESONATOR,CRYSTAL HC-49/SM 14MHZ |
| X202 | 6202VDT002H | RESONATOR,CRYSTAL SX-1 18.432000MHZ |
| X501 | 6212AB3004D | RESONATOR,CRYSTAL CSALF2M69G4ZF01-A3 |
| X502 | 6212AB2015A | RESONATOR,CRYSTAL HC-49/SM4H 4MHZ |
| X503 | 6202TST001E | CRYSTAL,SX-1 24MHZ 30PPM 20PF BK |
| X601 | 6202TST001A | CRYSTAL,SX-1 14.31818MHZ |
| X701 | 6212AB2873A | RESONATOR,CRYSTAL HC-49/SM 24.57600MHZ |
| X702 | 6212AB2873A | RESONATOR,CRYSTAL HC-49/SM 24.57600MHZ |
| **MISCELLANEOUS** | | |
| C1 | 6850J00005C | CABLE,DVI LVDS UL20276 AWG30 600MM |
| C2 | 6851V00022D | CABLE,COAXIAL UL1365#26 VW-1 250MM |
| IC204 | 692791122AC | SOFT WARE,2.01.0V F836 PDP PA61B |
| IC205 | 692791123AC | SOFT WARE,2.01.0V 54CF PDP PA61B |
| IC207 | 692791124AC | SOFT WARE,2.01.0V 78FE PDP PA61B |
| IC208 | 692791125AC | SOFT WARE,2.01.0V 211D PDP PA61B |
| IC504 | 692791130AD | SOFT WARE,3.00V 28B4 PDP PA62A |
| P1002 | 6871VSMFA8A | PCB ASSEMBLY,SUB A/V OPTIC BD |
| PA101 | 6712000011B | REMOTE CONTROLLER RECEIVER |
| TU1300 | 6700AB0001A | TUNER,TDVM-H751P |
| TU1302 | 6700NF0024A | TUNER,ENG36A54GF |
| TU2 | 6634D00016A | ADAPTER,RF TASA-H401F |
| VR601 | 6102W5V016A | VARISTOR,AVRL161A1R1NT |
| VR602 | 6102W5V016A | VARISTOR ,AVRL161A1R1NT |
| VR603 | 6102W5V016A | VARISTOR,AVRL161A1R1NT |
| VR604 | 6102W5V016A | VARISTOR ,AVRL161A1R1NT |
| X200 | 6204B48360A | OSCILLATOR,SCO-103 33.33000MHZ |
| X3070 | 6204B47985K | OSCILLATOR,BMS-873R 25MHZ |
| X3071 | 6204B47985K | OSCILLATOR,BMS-873R 25MHZ |
| X500 | 6204B62705A | OSCILLATOR,27.00000MHZ +/- 30 PPM |
| **ACCESSORIES** | | |
| A1 | 38289U0512D | MANUAL,USER |
| A2 | 6710T00017W | REMOTE CONTROLLER |
| A3 | 6410TUW008A | POWER CORD,LP31+LS13 1870MM |
| A4 | 6850TD9007E | CABLE,D-SUB UL20276-9C(5.8MM) DT L1800 |
| A5 | 6852TAZ010F | CABLE,COAXIAL NT CABLE L3000MM |
| A7 | 4972V00178A | FIXER,WALL |

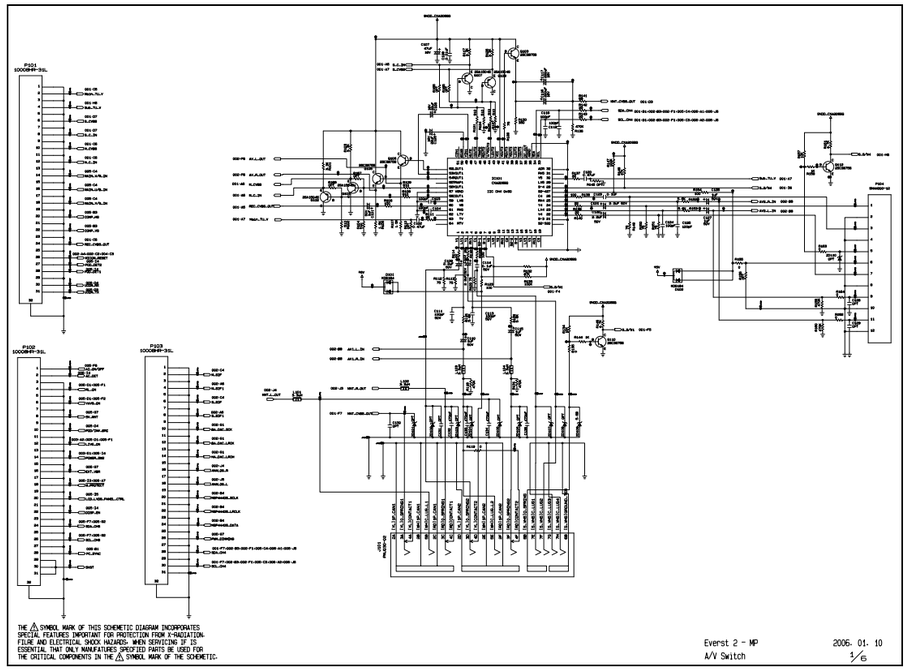
| LOCA. NO | PART NO | DESCRIPTION |
|---|---|---|


P/NO : 38289S0021B

Feb., 2006
Printed in Korea

**CANADA: LG Electronics Canada, Inc. 550 Matheson Boulevard East Mississauga, Ontario L4Z 4G3**

**USA : LG Electronics Alabama, Inc.**
**P.O.Box 240007, 201 James Record Road Bldg 3**
**Huntsville, AL 35824**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ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR
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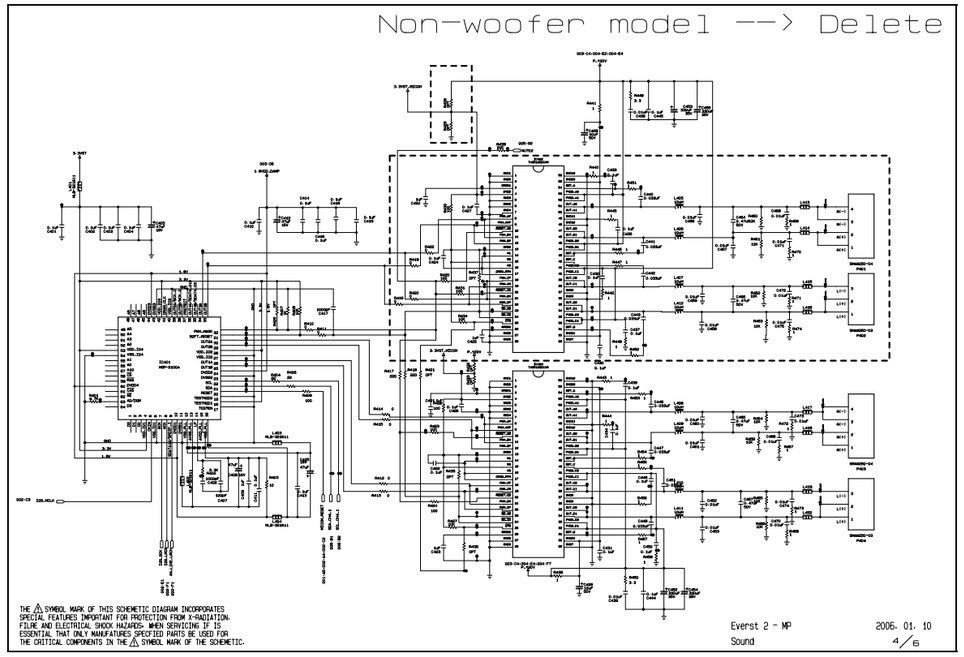
Everst 2 - MP
A/V Switch
2006. 01. 10
1/6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ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR
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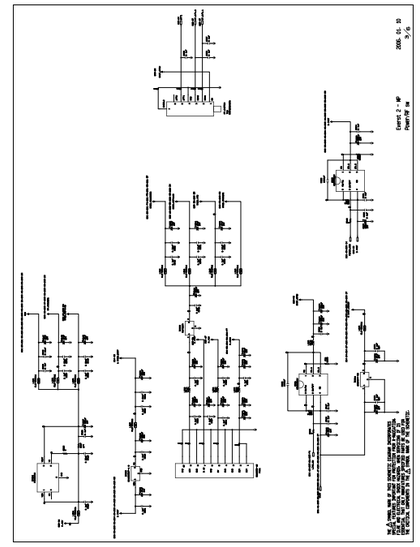
Everst 2 - MP
Sound
2006. 01. 10
4/6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Power SW
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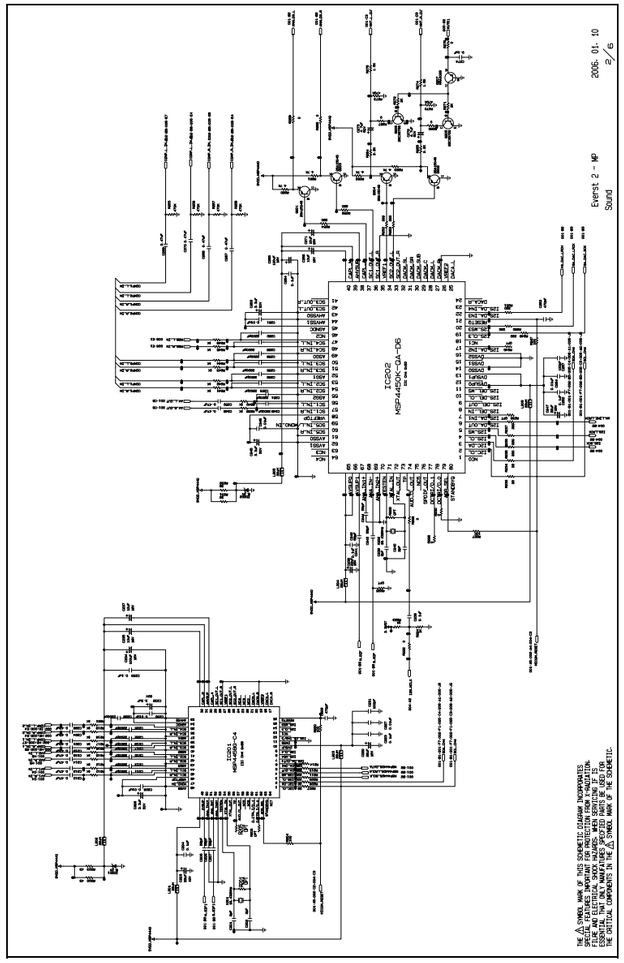
5/6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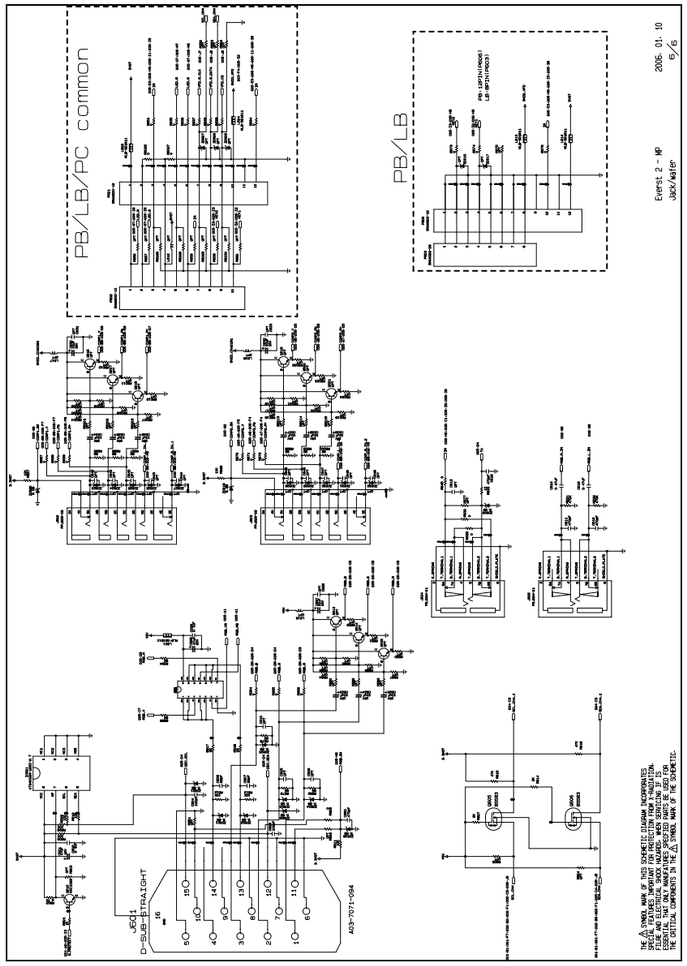
FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.
Everst 2 - MP
Sound
2006. 01. 10
2/6


PB/LB/PC common
PB/LB
JEG01
D-SUB-9TH-STRAIGHT
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SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION.
FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR
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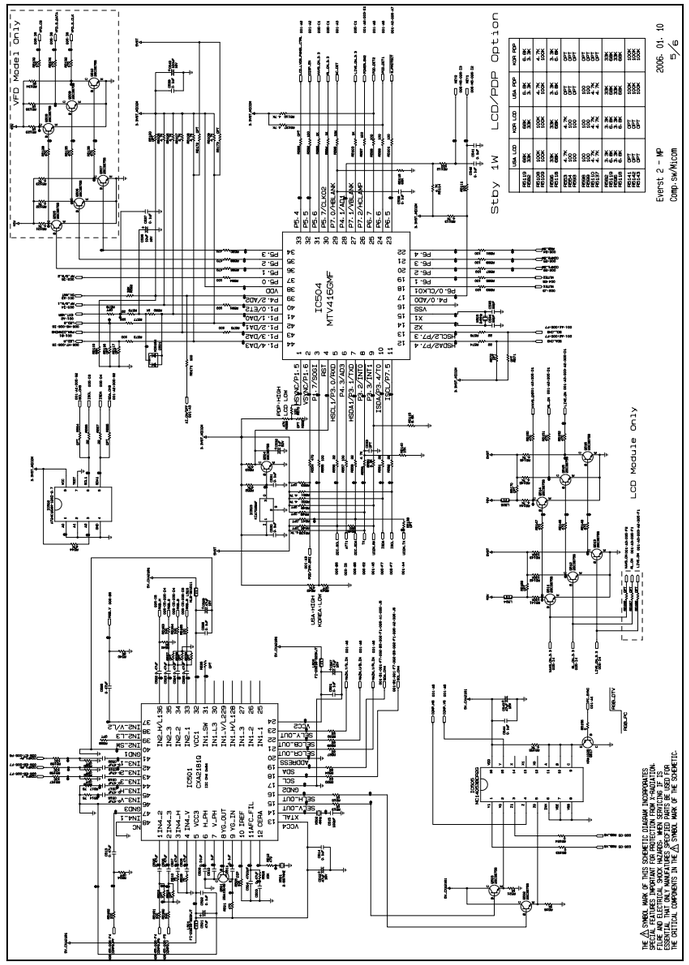
Everst 2 - MP
Jack/Wafer
2006. 01. 10
6/6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IC504
MTV416SMF
LCD Module Only
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FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS
ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR
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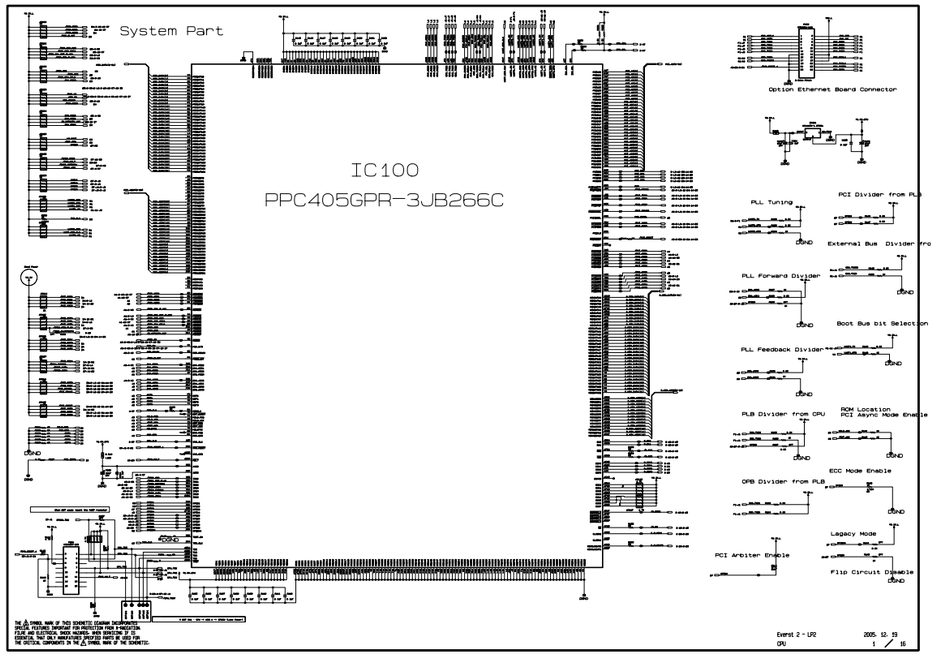
Everst 2 - MP
Comp.sw/Micom
2006. 01. 10
5/6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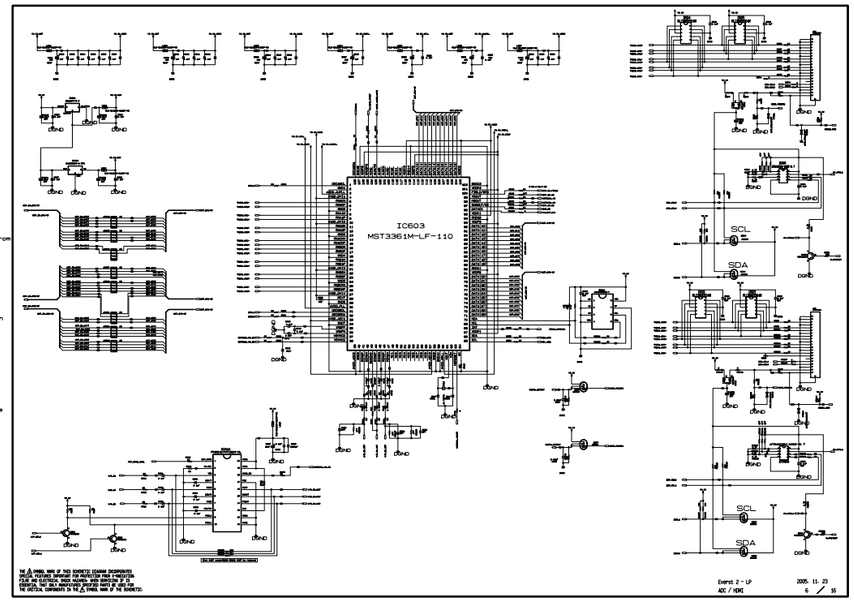
External Bus Divider from
PLL Forward Divider
Boot Bus Bit Selection
PLL Feedback Divider
PLB Divider from CPU
ROM Location
PCI Async Mode Enable
ECC Mode Enable
OPB Divider from PLB
Legacy Mode
PCI Arbiter Enable
Flip Circuit Disable
Everst 2 - LP2
CPU
2005. 12. 19
1 / 16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MST3361M-LF-110
SCL
SDA
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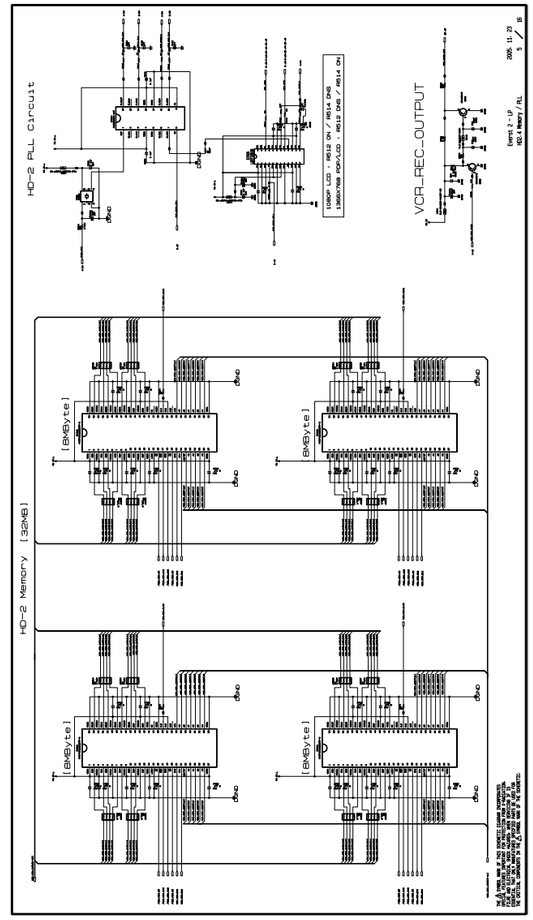
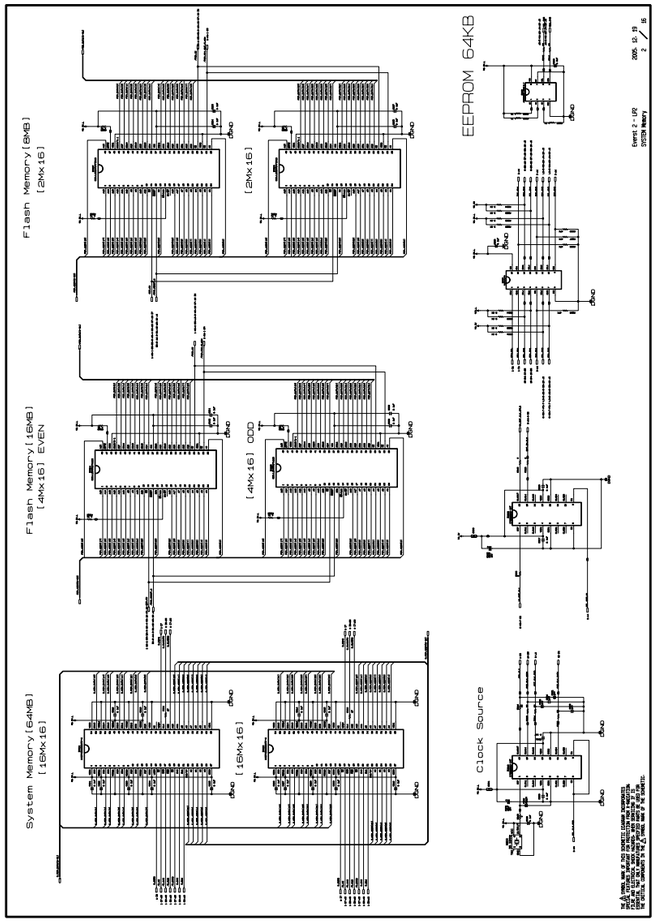
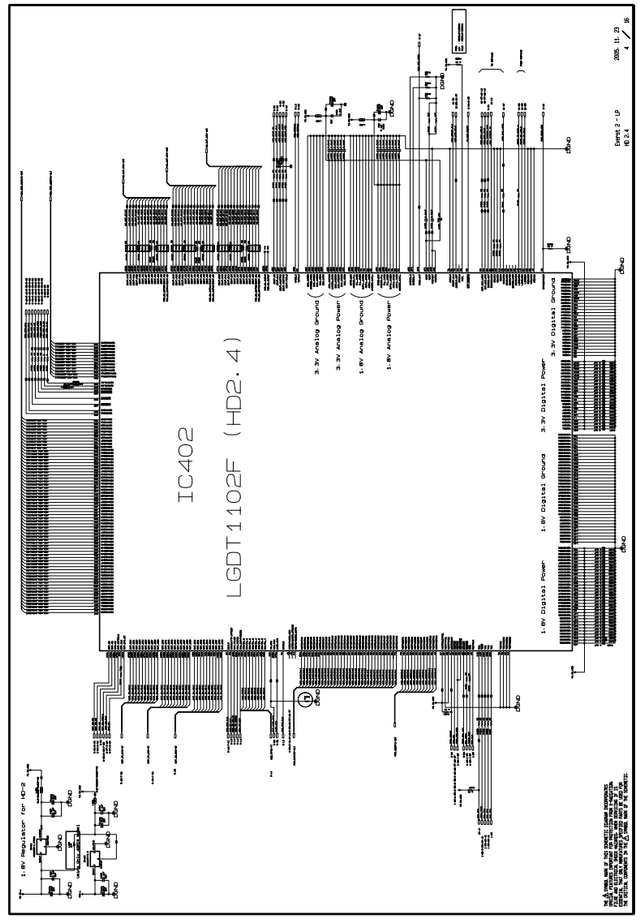
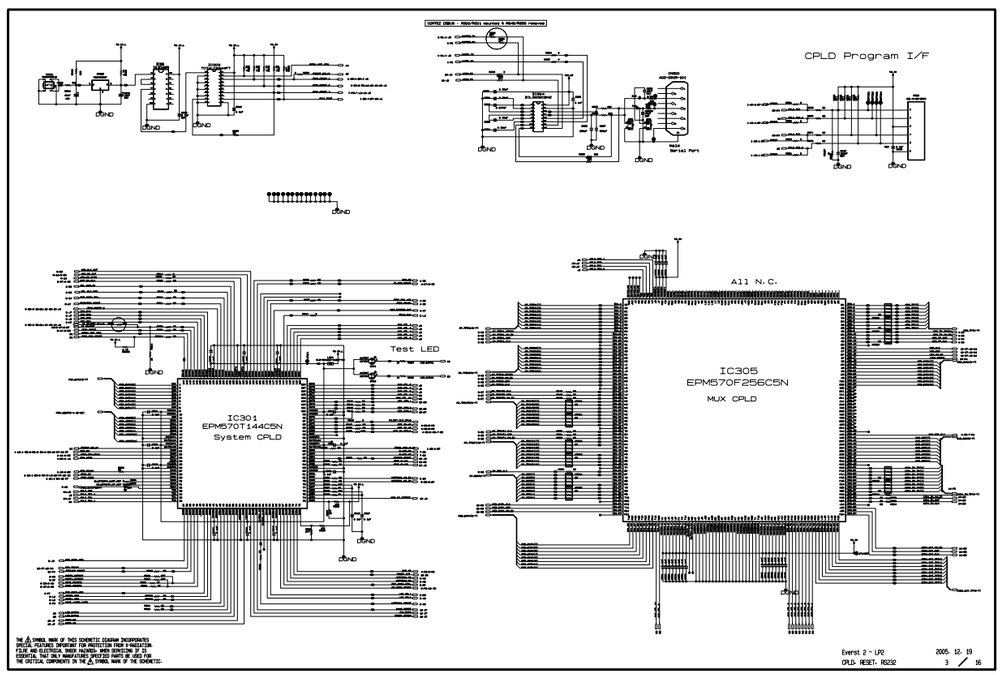
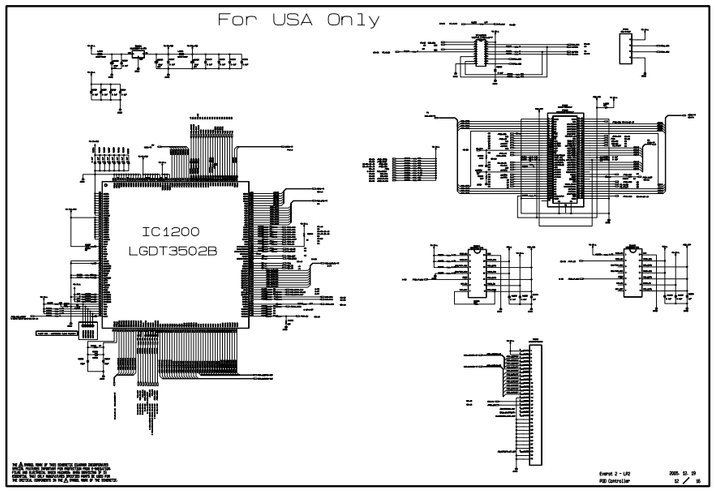
ADC / HDMI
2005. 11. 23
6 / 16

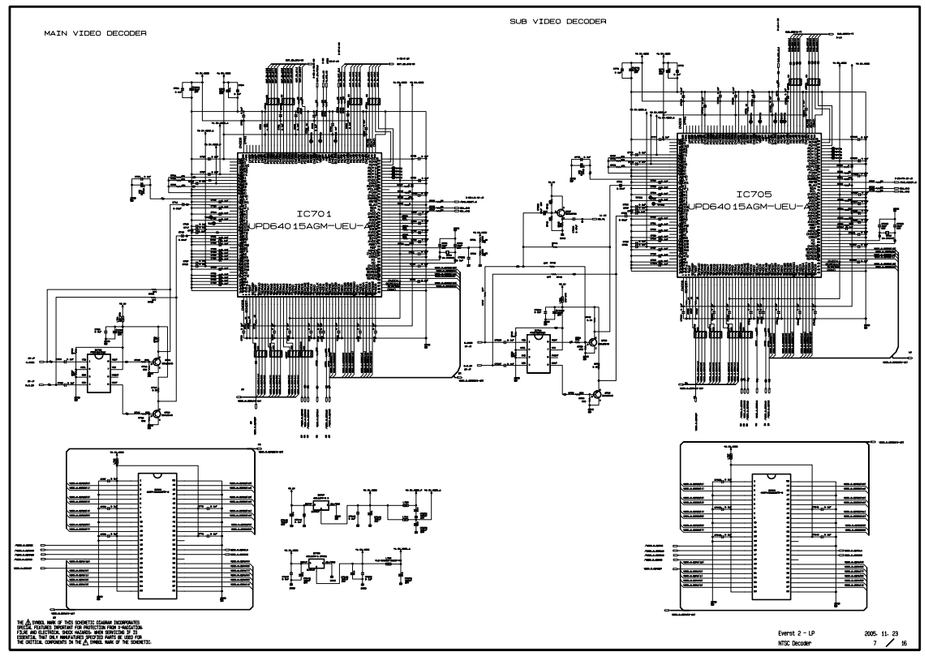

HD-2 PLL Circuit
VCR_REC_OUTPUT
HD-2 Memory [32MB]
[8MByte]
Everst 2 - LP
HD-2 Memory
2005. 11. 23
5 / 16

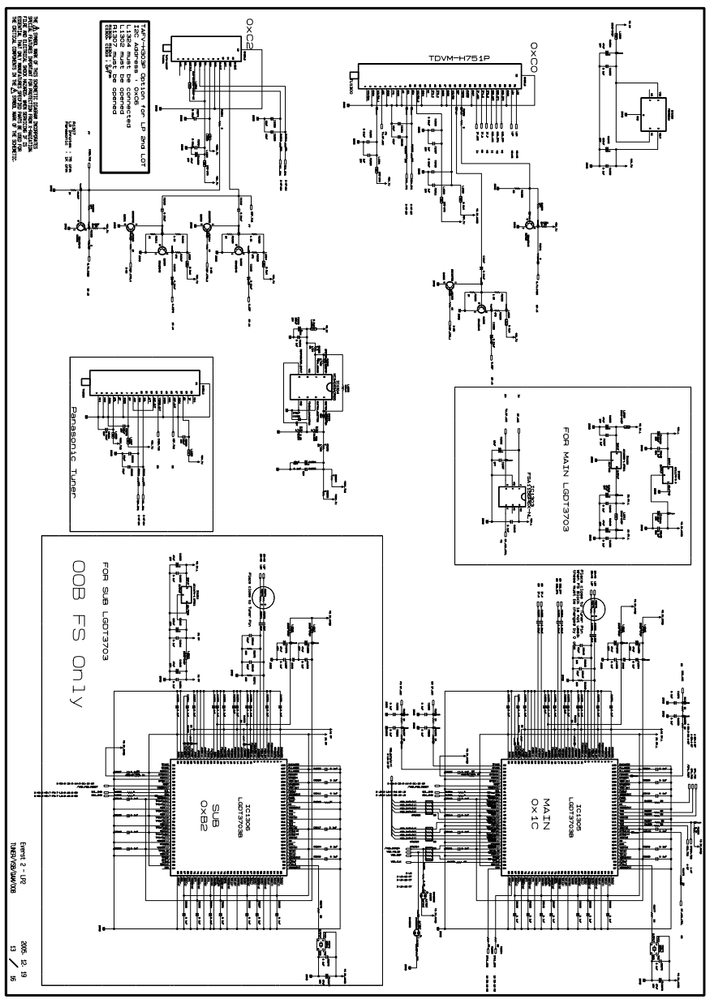

Flash Memory [8MB]
[2Mx16]
[2Mx16]
Flash Memory [8MB]
[4Mx16] EVEN
[4Mx16] ODD
System Memory [64MB]
[16Mx16]
[16Mx16]
EEPROM 64KB
Clock Source
Everst 2 - LP2
SDRAM Memory
2005. 12. 19
2 / 16

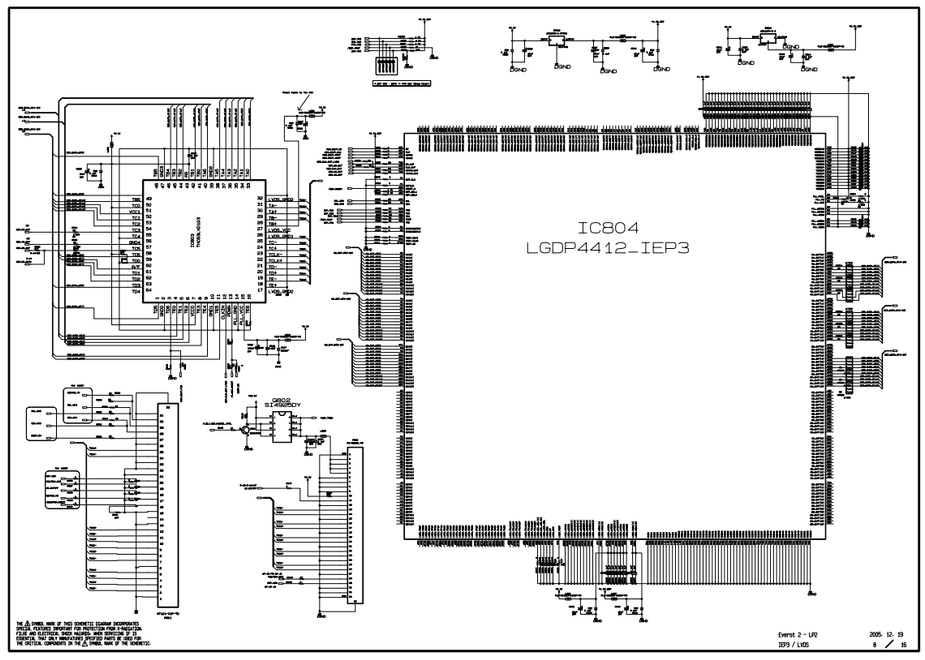

IC402
LGDT1102F (HD2.4)
3.3V Analog Ground
3.3V Analog Power
1.8V Analog Ground
1.8V Analog Power
3.3V Digital Power
1.8V Digital Ground
1.8V Digital Power
1.8V Regulator for HD-2
Everst 2 - LP
HD-2
2005. 11. 23
4 / 16

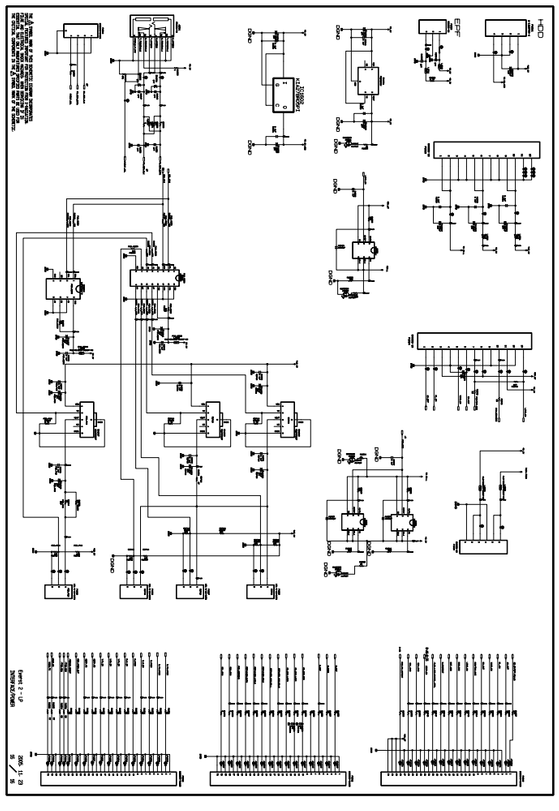

CPLD Program I/F
Test LED
IC301
EPM570T144C5N
System CPLD
All N.C.
IC305
EPM570F256C5N
MUX CPLD
Everst 2 - LP2
CPLD- RESET, RS232
2005. 12. 19
3 / 16

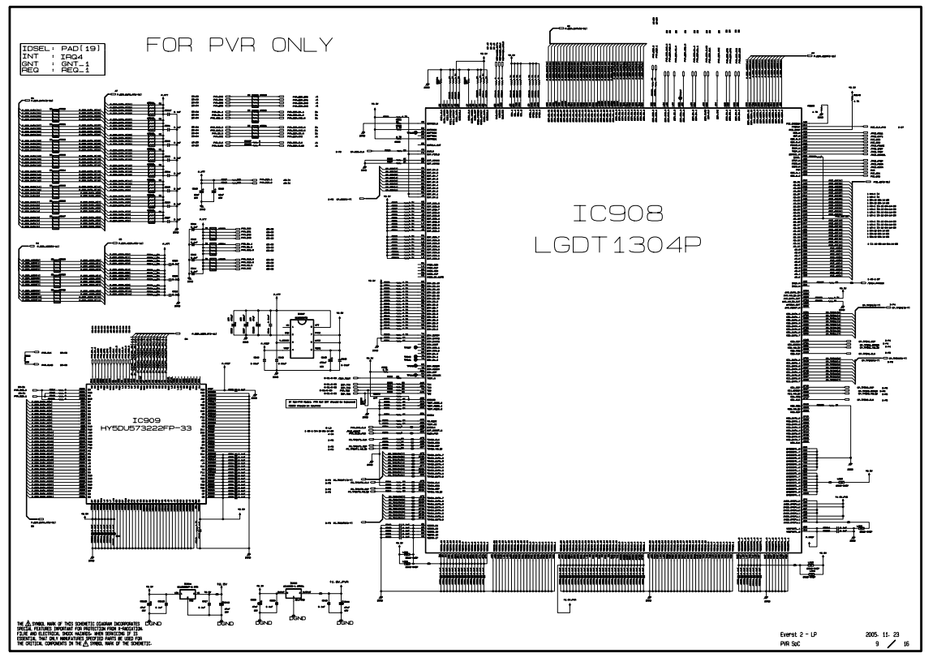

For USA Only
IC1200
LGDT3502B

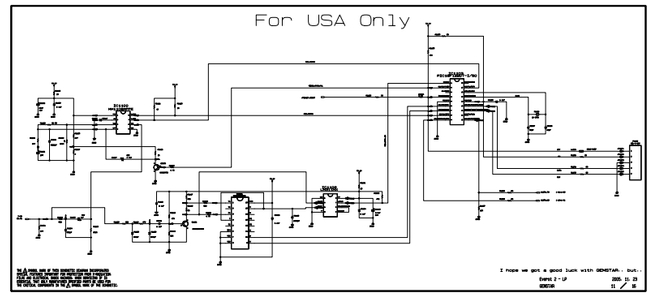

MAIN VIDEO DECODER
SUB VIDEO DECODER
IC701
UPD64015AGM-UEU-A
IC705
UPD64015AGM-UEU-A

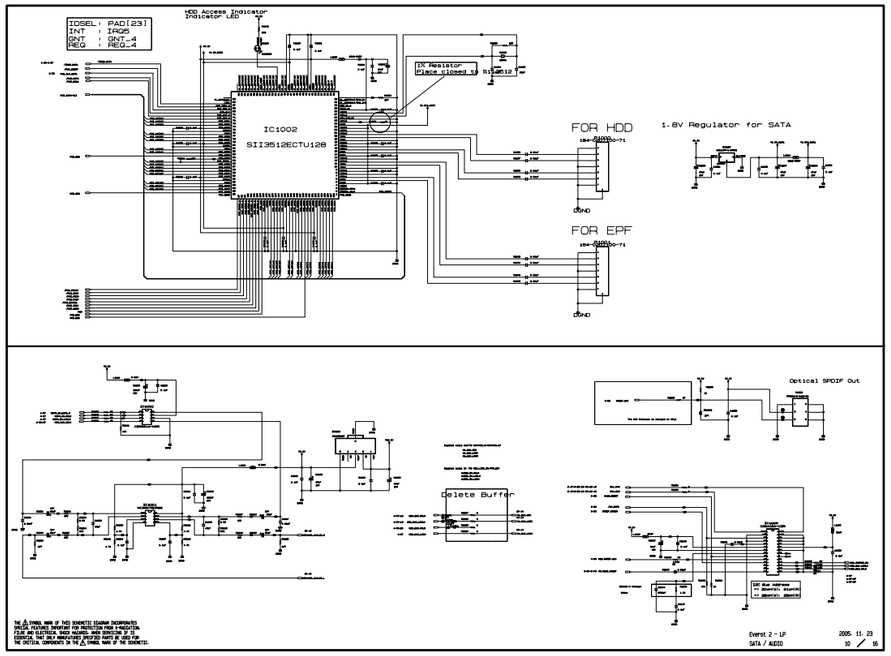

TDVM-H751P
0xC0
0xC8
FOR MAIN LGDT3703
FOR SUB LGDT3703
00B FS Only
Panasonic Tuner
IC1300
LGDT3703B
SUB
0xB2
IC1301
LGDT3703B
MAIN
0x1C

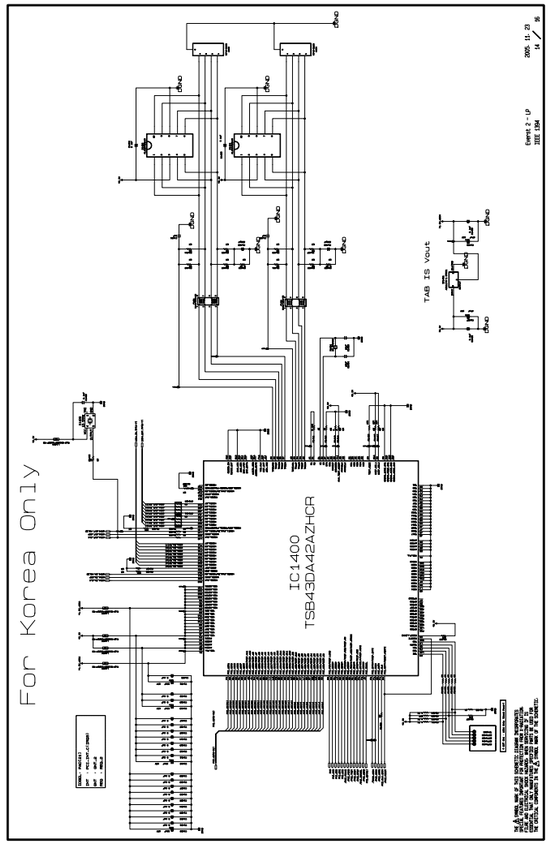

IC804
LGDP4412_IEP3



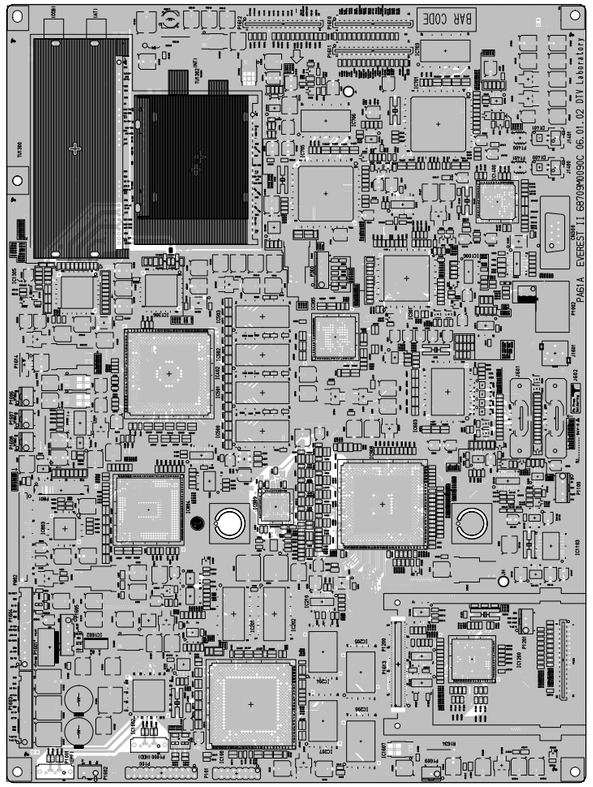

FOR PVR ONLY
IC908
LGDT1304P
IC909
HY5DU573222FP-33


For USA Only

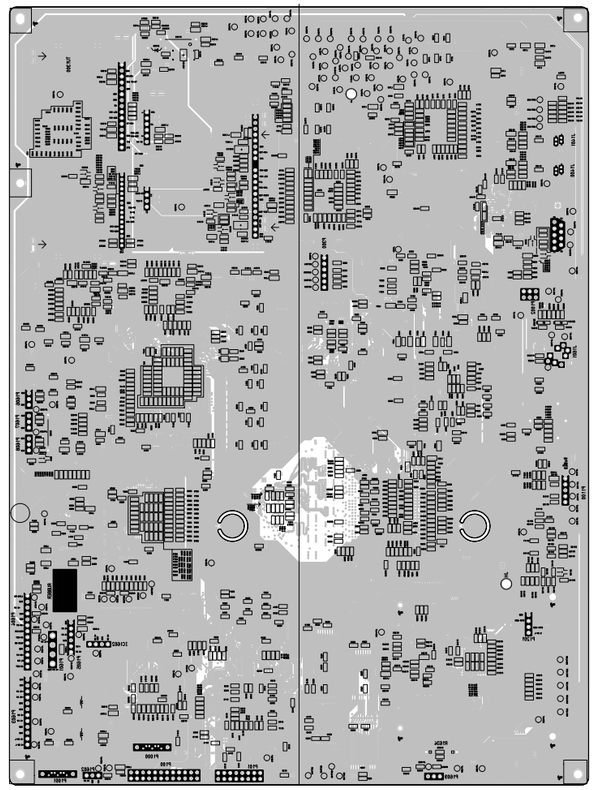


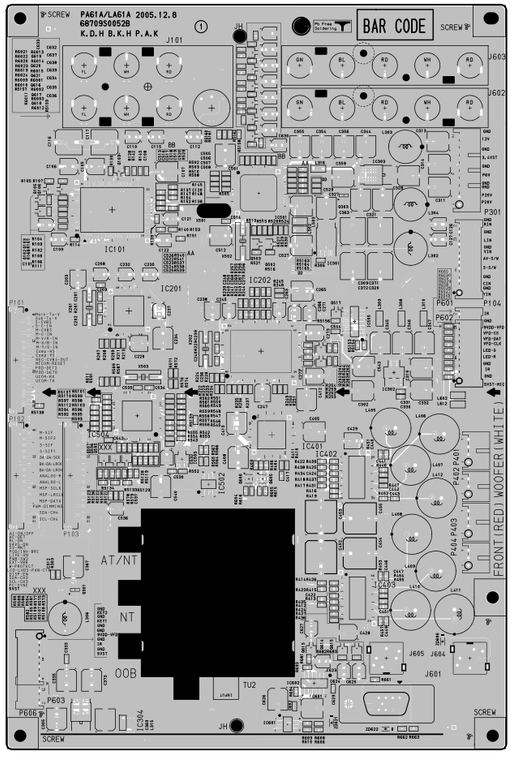

DIGITAL(TOP)



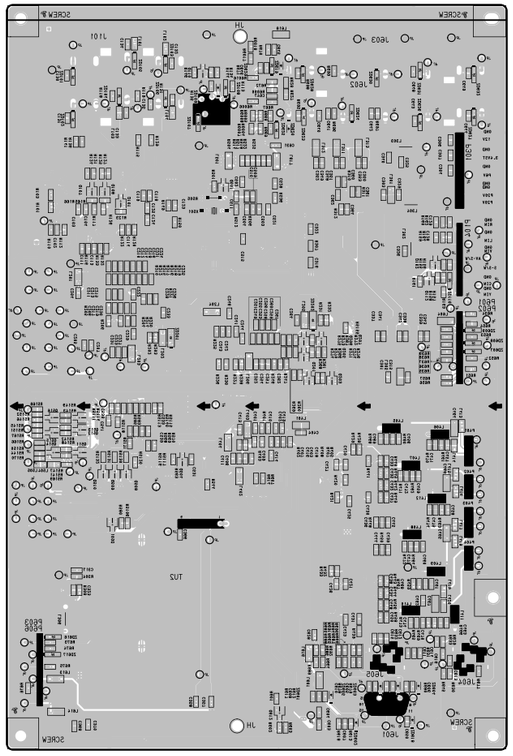

DIGITAL(BOTTOM)



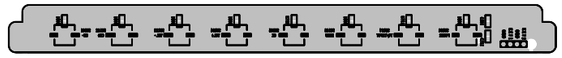
ANALOG(TOP)



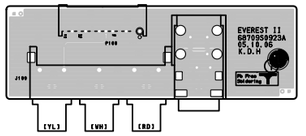

ANALOG(BOTTOM)



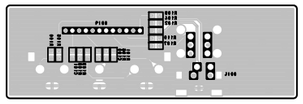
CONTROL



SIDE A/V(TOP)




SIDE A/V(BOTTOM)



PRE-AMP